



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं. 15] नई दिल्ली, शनिवार, अप्रैल 11, 1992 (चैत्र 22, 1914)

No. 15] NEW DELHI, SATURDAY, APRIL 11, 1992 (CHAITRA 22, 1914)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

#### THE PATENT OFFICE

#### PATENTS AND DESIGNS

Calcutta, the 11th April 1992

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Patent Office Branch, Todi Estates, III Floor, Lower Parel (West), Bombay-400 013.

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

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Patent office Branch Unit No. 401 to 405, III Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC"

1—17 GI/92

Patent Office Branch, 61, Wallajah Road, Madras-600002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office), "NIZAM PALACE", 2nd M. S. O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal order, payable to the Controller at the appropriate Offices or by bank draft or cheque payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 11 अप्रैल 1992

## पेटेंट कार्यालय के कार्यालयों के पाते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा उम्मीद, दिल्ली एवं मद्रास में इसके शास्त्र कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न स्पष्ट में प्रदर्शित हैं :—

पेटेंट कार्यालय शास्त्र, टोडी हस्टेट,  
तीसरा तल, लोअर परदेल (पश्चिम),  
हस्ट-400013।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संच शासित क्षेत्र गोआ, बमन तथा  
दिश एवं दादरा और नगर हवेली।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शास्त्र,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरन्वती भाग, करोल बाग,  
हस्ट विल्ली-110005।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संच शासित क्षेत्र छंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिक”

## पेटेंट कार्यालय शास्त्र,

61, बालाजाह रोड,

इंडिया-600002।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु, राज्य  
क्षेत्र एवं संच शासित क्षेत्र परिषिरे, लक्ष्मणद्वीप  
मिनिकार्य तथा अभिनिविवि द्वीप

तार पता—“पेटेंटोफिस”—

पेटेंट कार्यालय (प्रधान कार्यालय)  
निजाम पैलेस, दिवतीय बहुतलीय कार्यालय,  
भवन, 5, 6 तथा 7था तल,  
234/4, आचार्य जगदीश बोम रोड,  
कलकत्ता-700020।

## भारत का शेष क्षेत्र

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

**श्लक :**—श्लकों की अदायगी या सो नकद की आपाती अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आवेदन या जहां उपयुक्त कार्यालय अवस्थित है; उस स्थान के अनुसन्धान बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती है।

## THE PATENT OFFICE

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act 1970.

The 2nd March 1992

134/Cal/92 Hoechst Aktiengesellschaft, Process for the preparation of alkancsulfonylbenzoic acids.

135/Cal/92 Hoechst Aktiengesellschaft. Process for separating catalysts from suspensions by filtration.

136/Cal/92 Wen-Yuan Lee. Method of manufacturing a washer.

137/Cal/92 Somar Corporation. Thermosetting powder composition.

138/Cal/92 Thomson Consumer Electronics, Inc. Television receiver with partially by-passed non-linear luminescence signal processor.

139/Cal/92 Hoechst Celanese Corporation. Synthesis of 1-amino-anthraquinone.

140/Cal/92 Hoechst Celanese Corporation. Synthesis of 1-amino-anthraquinone.

141/Cal/92 Sailendranath, Nath Road life extender.

142/Cal/92 Yoshie Kurthara. Curculin B and DNA encoding same, and process for production thereof.

The 3rd March 1992

143/Cal/92 Dao-Pin Chang. A sexual aid.

144/Cal/92 Eaton Corporation. Field sensing arc detection.

The 4th March 1992

145/Cal/92 Swapan Kumar Chattopadhyay. Novel zero-cement castable composition and uses thereof.

146/Cal/92 Trutzschler GMBH &amp; Co. KG. A device for the cleaning and opening of fiber material, EG cotton, synthetic fiber material and similar other material, present fleece form.

The 5th March 1992

147/Cal/92 Siemens Aktiengesellschaft. Once-through steam generator having a vertical gas flue and consisting of essentially vertically arranged tubes.

148/Cal/92 Siemens Aktiengesellschaft. Automatic control of a hot-rolling and or cold-rolling process.

149/Cal/92 Kabushiki Kaisha Tanisake. Hair nourishing agent and production thereof.

The 6th March 1992

150/Cal/92 Samsung Electronics Co., Ltd. Remote control of a facsimile. (Convention date 10-6-91 No. 91124156/U.K.).

151/Cal/92 Samsung Electronics Co., Ltd. A system and method for controlling a common terminal by using a memory card. (Convention date 7-5-91 No. 9109731.1, U.K.).

The 6th March 1992

152/Cal/92 White Consolidated Industries, Inc. Refrigerator system with subcooling flow control valve.

153/Cal/92 Sensotech, L.P. Engine misfire, knock of roughness detection method and apparatus.

154/Cal/92 Bollmann Hydraulik GBMH. An improved transmission gear. (Divisional of Application No. 983/Cal/88; Ante-dated to 29th November, 1988).

155/Cal/92 Kotamraju Krishna Mohan Sharma. An improved size separation apparatus such as grizzlies.

The 9th March 1992

156/Cal/92 Prasanta Kumar Mahapatra. Alternating current/direct current tube light choc with bed light provisions.

157/Cal/92 Engelhard Corporation. Small pored crystalline titanium molecular sieve zeolites. (Divisional of Application No. 1042/Cal/88; Ante-dated to 19th December, 1988).

158/Cal/92 Koenig and Bauer Aktiengesellschaft. Procedure for judging printed sheets.

159/Cal/92 Eaton Corporation. Timing window Arc detection.

## APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-2

The 6th January 1991

4/Mas/92 Tecumseh Products Company. Orbiting scroll member assembly.

5/Mas/92 Tecumseh Products Company. Axially floating scroll member assembly.

6/Mas/92 Tecumseh Products Company. Scroll compressor including drive pin and roller assembly having sliding wedge.

7/Mas/92 Tecumseh Products Company. Oldham Compressor.

8/Mas/92 Signode Corporation. Improved sealer mechanism for a tool for applying a seal to overlapping length of strap.

The 7th January 1992

9/Mas/92 M. I. J. Devasia. An implement for peeling of dried arecanut. The conventional method of peeling dried arecanut is using a knife. It is a hard work which requires a lot of time. Even an expert peeler can peel to a maximum of 20 kgs. of arecanut only in 8 hours. But by using this new implement one can peel upto 300 kgs. within eight hours time.

10/Mas/92 P. M. Varughese. Rubber tapping.

11/Mas/92 Foseco International Limited. Rotary pipe conveyor apparatus for granular materials (January 16, 1991; United Kingdom).

12/Mas/92 Shell Internationale Research Maatchappij B.V. Polymeric viscosity index improvers.

The 8th January 1992

13/Mas/92 Chemfab Alkalies Limited. A process for the recovery of magnesium hydroxide and calcium carbonate from chlor-alkali plant waste.

14/Mas/92 Snam Alloys Pvt. Ltd. A process for the manufacture of ferro silicon magnesium from liquid ferro silicon and a crucible for carrying out the said process.

15/Mas/92 Dana Corporation. Gasket having compressible inserts in bolt apertures.

The 9th January 1992

16/Mas/92 Hoogovens Croep BV. Wire transport apparatus.

17/Mas/92 Comalco Aluminium Limited. Improved spent pot lining recovery process. (11-1-1991; Australia).

The 10th January 1992

18/Mas/92 GEC-Marconi Limited. Parallel Processing apparatus. (January 11, 1991; United Kingdom).

19/Mas/92 Dianlin Chang and Steven Siuwai Lan. (July 8, 1991; Canada).

20/Mas/92 Mondesh Limited. Pumps. (January 10, 1991; Australia).

The 13th January 1992

21/Mas/92 Asea Brown Boveri Ltd. Connecting valve and hydraulic oil safety and power system in which the connecting valve is used.

22/Mas/92 Shell Internationale Researche Maatchappij. Oil compositions containing functionalised polymers.

23/Mas/92 Caterpillar Inc. A replaceable corner tooth assembly. (June 7, 1988; Canada) (Divisional to Patent Application No. 91/Mas/89; Ante-dated to 3-2-1989).

The 14th January 1991

24/Mas/92 Urea Casale S.A. System and device for increasing the yield and the production potential of urea reactors.

25/Mas/92 Gabriel Nechushtan. Expandable case.

26/Mas/92 Tshihara Sangyo Kaisha. Substituted pyridine-sulfonamide compound or its salt process for preparing the same, and herbicide containing the same.

27/Mas/92 Minnesota Mining and Manufacturing Company. A structured abrasive article.

The 16th January 1992

28/Mas/92 Soundoul (Pty) Ltd. & Southern Life Place. Audio Equipment.

The 17th January 1992

29/Mas/92 S & S Power Switchgear Ltd. An improved pantograph isolator.

30/Mas/92 "Eddy Gopala Krishna Rao. Improvements relating to energy production"; post evaporative vapour compression.

31/Mas/92 Borden (U.K.) Limited. A method of making a foundry moulding shape or core shape (January 12, 1988; United Kingdom) (Divisional to Patent No. 919/Mas/88; Ante-dated to 26th December, 1988.)

The 20th January 1991

32/Mas/92 M/s. Bharat Dynamics Limited. Firing launcher adaptor for milan equipment.

33/Mas/92 American Telephone & Telegraph Company. Information display apparatus and methods.

34/Mas/92 BASF Aktiengesellschaft. Cyclic preparation of cyclohexene oxide, cyclobexane and cyclohexanone.

35/Mas/92 Minnesota Mining and Manufacturing Company. A pressure-sensitive adhesive tape. (Divisional to Patent No. 588/Mas/88.)

The 21st January 1992

36/Mas/92 Ruddaraju Satyanarayana Raju. Machine for transplanting paddy and the like crops seedlings.

37/Mas/92 Tecumseh Products Company. Method and apparatus for machining scroll wraps.

38/Mas/92 Textron Inc. Elliptical lobed drive system.. 22nd January, 1992.

39/Mas/92 Narasimhan Venkataramanan. A vacuum cleaner-cum-blower attachment.

40/Mas/92 Girivas Viswanath Shet. Dil Ki Avaz which is a song invented by me through heavenly knowledge.

The 24th January 1992

41/Mas/92 H. S. Rajaram. A reciprocating pumping system for pneumatic conversion of sea wave energy.

42/Mas/92 H. S. Rajaram. Renewable energy process.

43/Mas/92 H. S. Rajaram. Linear inclined-plane spiral turbine.

44/Mas/92 H. S. Rajaram. Fluid motors.

45/Mas/92 Mrs. S. Subashini, Proprietrix of M/s. Flavours & Fragrances. Floral absolutes by bio-technology process.

46/Mas/92 Tirupattur Damodara Rao. Improved deflourination packages plant.

47/Mas/92 Billie Joe Becoat. Dual wheel driven bicycle.

The 27th January 1992

48/Mas/92 Asea Brown Boveri Ltd. Process for electrode control of a DC arc furnace, and an electrode control device.

49/Mas/92 The Dow Chemical Company. Process for reducing hydrolyzable chloride in toluene diisocyanate.

50/Mas/92 Energy Conversion Devices, Inc. Electrically erasable phase change memory.

The 28th January 1992

51/Mas/92 Palitex Project-Company GmbH. A two-for-one twisting spindle.

52/Mas/92 Urea Casale S.A. Process and plant for the production of urea with differentiated yield reaction spaces.

53/Mas/92 Compagnie Generale Des Etablissements Michelin-Michelin & CIE—Grinding of tires.

The 29th January 1992

54/Mas/92 Best & Crompton Engineering Limited. Friction grip tower template.

55/Mas/92 Du Pont (UK) Ltd. Improvements in or relating to printing. (January 29, 1991; United Kingdom).

56/Mas/92 Union Carbide Chemicals & Plastics Technology Corporation. Process for reducing hexane extractables from ethylene copolymers.

The 30th January 1992

57/Mas/92 Kirloskar Electric Co. Ltd. "COMPANION"—A CNC Turning Attachment.

58/Mas/92 Bifora Watch Company Ltd. An integrated circuit.

59/Mas/92 Maschinenfabrik Rieter AG. Apparatus for grinding clothing, such as the clothing of a carding cylinder or cleaning cylinder.

60/Mas/92 Institut Francais Du Petrole and Jacques Benzia. Process for production of alkaline or alkaline-earth metal terephthalate or of terephthalic acid, of high purity, from polyol polyterephthalate and ink particular from waste of an ethylene glycol polyterephthalate.

The 31st January 1992

61/Mas/92 Millmore Engineering Private Limited. A novel method of or process for separating husk from shelled paddy and a husk separator based thereon.

62/Mas/92 B. A. Joseph. Magnetic rings and travellers.

63/Mas/92 John Lai. A method of and preparation for treating musculoskeletal and neural disorders. (February 1, 1991; Australia).

64/Mas/92 Mars Incorporated. Coin testing apparatus.

65/Mas/92 Hoechst Aktiengesellschaft. A process for the preparation of MA.

66/Mas/92 Norton Company. Verified bonded finely milled sol gel aluminous bodies.

67/Mas/92 Igen Inc. Autoantibodies which enhance the rate of a chemical reaction. [Divisional to Patent Application No. 326/Mas/90].

#### ALTERATION OF DATE UNDER SECTION 16

170549 (758/Mas/23)	Ante-dated-to January 23, 1986.
170558 (822/Mas/89)	Ante-dated-to April 3, 1986.
170559 (823/Mas/89)	Ante-dated-to April 3, 1986.
170560 (833/Mas/89)	Ante-dated-to February 4, 1986.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for, on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra, if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

## स्त्रीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अधिक एसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही काइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप है।”

नीचे सूचीगत विनिर्देशों की सीमित संख्यक मुद्रित प्रक्रियां, भारत सरकार बूक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय होते यथा सम्म उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है।

(अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति होते साथ पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

स्पांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेट कार्यालय, कलकत्ता द्वारा विहित लिपान्तरण प्रभार जिसे उक्त कार्यालय से पत्र अवश्याहार द्वारा सुनिश्चित करने के उपरांत उसकी अदाएँगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक रवीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिपान्तरण प्रभार 4/- रु. है) फोटो लिपान्तरण प्रभार का परिस्फलता किया जा सकता है।

CLASS : 152-F [GROUP XII(2)]

170531

Int. Cl. : F 16 J. 59/00.

## A PROCESS OF MAKING A THERMAL INSULATING AND/OR SOUND ABSORBING MATERIAL.

Applicant : THE DOW CHEMICAL COMPANY, OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, USA.

A corporation organised and existing under the laws of the State of Delaware, USA.

Inventors : ROBERT L. HOTCHKISS, FRANCIS P McCULLOUGH, DAVID M. HALL, LAKE JACKSON, JACQUELINE R. McCULLOUGH, R. VERNON SNELGROVE.

Application No. 899/Mas/87 filed on 14th December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras.

## 4 Claims

A process of making a thermal insulating and/or sound absorbing material having a multiplicity of nonflammable, nonlinear and irreversibly heat set carbonaceous fibres from a multiplicity of stabilized polymeric precursor fibers, comprising the steps of imparting a spring-like nonlinear shape to the said precursor fibers in a known manner, heating said nonlinear precursor fibers to a temperature greater than 525°C in a relaxed state and under non-oxidizing conditions to impart a permanent heat set to said fibers and to increase the carbon content of the precursor fibers to greater than 65% to form said carbonaceous fibers, and forming said multiplicity of nonlinear carbonaceous fibers in a known manner into a baiting.

(Compl. Specn. 35 pages).

Drgs. One sheet)

CLASS : 84-A—[GROUP-XXXII(2)]

170532

Int. Cl<sup>4</sup> : C 01 B 3/22, B 01 J 19/00.

## AN APPARATUS AND A METHOD FOR PRODUCING SYNTHESIS GAS.

Applicant : INSTITUT FRANCAIS DU PETROLE, A FRENCH BODY CORPORATE, OF 4, AVENUE DE BOIS PREAU 92502 RUEIL-MALMAISON, FRANCE.

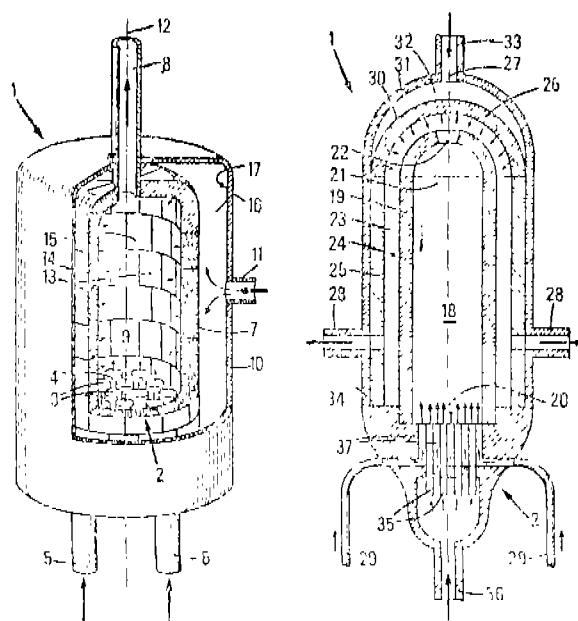
Inventors : (1) PAUL GATEAU (2) MICHEL MAUTE- (3) ALAIN FEUGEIR (4) EDMOND PERHUIS.

Application No. 905/Mas/87 filed December 17, 1987.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras.

## 21 Claims

An apparatus for producing synthesis gas by combustion of a fuel in an atmosphere having a deficiency in gaseous combustive agent, comprising a reactor with first feed means for feeding the fuel and a part of the combustive agent into the reactor, and second feed means having at least one porous wall for feeding a second part of the combustive agent into the reactor.



(Compl. Specn. 17 pages).

Drgs. 2 sheets)

CLASS : 69-I—[GROUP-LIX(1)]

170533

Int. Cl.<sup>4</sup> : H 01 H 83/02.

## A TWO-POLE DIFFERENTIAL OR GROUND FAULT SWITCH.

Applicant : MERLIN GERIN, A FRENCH COMPANY, OF RUE HENRI TARZE, F 28050, GRENOBLE, CEDEX, FRANCE.

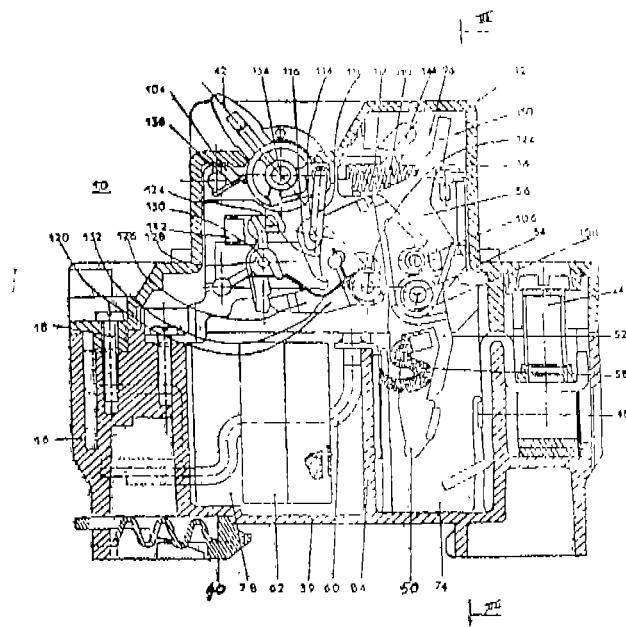
Inventors (1) SERVANT JACQUES (2) DUMONT DIDIER (3) VATLOT JACQUES (4) BONNIAU MICHEL.

Application No. 907/Mas/87 filed December 17, 1987.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras.

## 3 Claims

A two-pole differential or ground fault switch comprising moulded insulating case (12) housing; a pair of separable contacts (48, 50; 64, 66) per pole electrically connected to a pair of connection terminals (24, 22; 28, 26), an operating mechanism (90) of two movable contacts (50, 66), comprising a handle (42) connected by a mechanical transmission link to a part driving the movable contacts, a spring (110) actuating the mechanism (96) to bring about opening of the contacts when an automatic trip occurs on a fault, a differential trip device (46) having a sprung transformer (62) to detect a fault current, and a trip relay (98) designed to cooperate with a main latch (128) of said mechanical link of the mechanism (96), and an automatic resetting device of the relay (98) after tripping, characterised in that it comprises a differential trip indicator lever (152) cooperating by latching with an indicator latch (158) controlled by the relay (98), said indicator lever (152) being capable of occupying either a stable active fault indication position after the indicator latch (158) has been unlatched by the relay (98), or a stable inactive position after the indicator latch (158) has been relatched by moving the handle (42) manually to the closed position.



Inventors : 1. OSBORNE K. MCKINNEY 2. MICHAEL E. ROWLAND 3. ALFERD F. CASTELLO.

Application No. 36/Mas/88 filed on 19th January, 1988.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras.

### 5 Claims

A composition for producing ethylene acrylic acid type interpolymer film comprising in intimate admixture of (a) at least one copolymer of from 2 to 35 weight percent acrylic or methacrylic acid and 98 to 65 weight percent ethylene having a melt flow volume of from 0.01 to 50 dg/min;

(b) from 0.025 to 1 percent, by weight of the composition, of at least one secondary fatty acid amide of the formulae  $R_1\text{-CO-NH-R}_1$  wherein  $R_2$  is a saturated alkyl group having from 13 to 25 carbon atoms and  $R_2$  is a saturated alkyl group having from 14 to 26 carbon atoms;

(c) from 0.025 to 1 percent, by weight of the composition of at least one secondary fatty acid amide of the formula  $R_3\text{-CO-NH-R}_4$ , wherein  $R_3$  is a mono-olefinically unsaturated alkyl group having from 17 to 23 carbon atoms,  $R_4$  is a mono-olefinically unsaturated alkyl group having from 18 to 24 carbon atoms or a saturated alkyl group having from 14 to 26 carbon atoms.

(Compl. Specn. 31 pages.)

Drg. Nil

CLASS : 53C [GROUP-LII(5)]

170536

134B[GROUP-LII(1)]

Int. Cl.<sup>4</sup> : B 62 M 9/00.

### A COMBINED CUSH DRIVE AND FREE WHEEL TRANSMISSION SYSTEM FOR A MOPED.

Applicant : TVS-SUZUKI LIMITED, HARITA, HOSUR 633 109, TAMIL NADU, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

Inventor : MEDURI NELACHALAPATHY MURALI-KRISHNA.

Application No. 48/Mas/88 dated January 25, 1988.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras.

### 2 Claims

A combined cushion drive and freewheel transmission system for a moped comprising an assembly of a chain sprocket mounted on a sprocket carrier; a set of cushion drive rubbers accommodated inside the sprocket carrier and enclosed by a cover, the assembly being mounted on one side of the rear wheel hub of the moped wheel adjacent the brake; a thrust pad interposed between the assembly and the hub; and a freewheel mechanism mounted on the rear wheel hub on its other side.

(Compl. Specn. 5 pages.)

Drg. 1 sheet)

CLASS : 134-B-[GROUP-LII(1)]

170537

Int. Cl.<sup>4</sup> : B 60 B 35/16

### A DIFFERENTIAL ASSEMBLY USEFUL FOR VEHICLES.

Applicant : DANA CORPORATION OF 4500, DORR STREET, TOLEDO, OHIO 43615 USA, A CORPORATION OF THE STATE OF VIRGINIA, USA.

Inventors : (1) JACK G. GLAZE (2) TERRY L. OSTER.

Application No. 72/Mas/88 filed February 3, 1988.

Convention date : December 23, 1987; (No. 8729974; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras.

### 9 Claims

A differential assembly useful for vehicles comprising a housing means; an input shaft rotatable about an axis and being disposed in said housing means and carrying a first differential side gear means, said first side gear means being provided with first side gear teeth engageable with at least two differential pinion gear means; each of said pinion gear means being rotatably mounted to a carrier means mounted for rotation with said input shaft, each of said pinion gear means having an axis of rotation perpendicular to and intersecting the axis of said input shaft; at least one output shaft rotatable about an output axis coincident with said input shaft axis, said output shaft having a second differential side gear means non-rotatably mounted thereon and having gear teeth engageable with said pinion gear means; said first and second side gear means, said carrier means, and said pinion gear means cooperating to define a differential mechanism; said housing means including means for at least partially enclosing at least a lower portion of said differential mechanism; an apertured cup member affixed to said housing and surrounding said input shaft, said cup member being located between said carrier means and said first side gear means; an annular seal means positioned between and sealingly contacting said apertured cup member and said first side gear means; said housing means, said apertured cup member, said annular seal means, and said first side gear means defining a lubricant sump for said differential mechanism.

(Compl. Specn. 25 pages.)

Drgs. 3 sheets)

2 sheets each of size 33.00 cms. by 41.00 cms.)

CLASS : 189-[GROUP-LXVI(9)]

170538

Int. Cl.<sup>4</sup> : A 61 K 7/155

### DEPILATORY DEVICE FOR REMOVING BODY HAIR

Applicant : HAIR REMOVER LTD., AN ISRAELI CORPORATION OF 292 DIZENGOFF STREET, TEL-AVIV, ISRAEL.

Inventors : (1) JOSEPH GROSS (2) DAVID LOWENSTEIN (3) MENAHEM TILMAN (4) ETAN ROSENBERG.

Application No. 80/Mas/88 filed February 9, 1988..

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras.

### 9 Claims

A depilatory device for removing body hair, comprising a manually-grippable housing; and a hair-plucker body rotatably mounted to the housing and driven by a motor provided with a switch, the said hair-plucker body having an exposed section formed with a plurality of gaps in its outer surface which open and close during the rotation of the hair-plucker body to receive, pluck, and eject body hair growing on a surface over which the hair-plucker body is moved; characterized in that said hair-plucker body is a flexible cylindrical member of plastic material having a smooth outer surface formed with a plurality of slits penetrating only partially through the plastic cylindrical member and extending circumferentially thereof, said plastic cylindrical member being rotated about its longitudinal axis and being supported in an arcuate position such that said slits open at the convex side of the plastic cylindrical member during its rotation to receive the hairs between the open confronting faces of the slits, close at the concave side of the plastic cylindrical member during its rotation to clamp the hairs between the closed confronting faces of the slits.

(Compl. Specn. 13 pages.)

Drg. 1 sheet)

CLASS : 99 C [GROUP XL (4)]

170539

Int. Cl.<sup>4</sup> : B 65 D 1/12 & 1/20.**A BUNG BARREL**

Applicant : MAUSER-WERKE GmbH, OF 5040 BRUHL, SCHILDGESSTRASSE 71-163, POST FACH 16 20, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

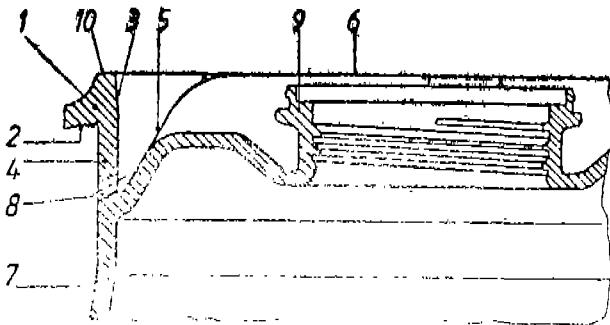
Inventor : DIETMER PRZYTULLA.

Application No. 216/Mas/88 filed on 5th April 1988.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras.

**6 Claims**

A bung barrel of thermoplastic synthetic plastics material, having at least one carrying and transport ring located on a cylindrical outer surface of the barrel adjacent a respective end face of the barrel, the ring being of solid cross section and having a radially-extending and an axially-extending contact surface for the grab arms of a barrel gripping device, the ring being integrally connected with the barrel by means of an annular connecting portion lying adjacent the radially-extending contact surface and running into the cylindrical outer surface of the barrel, a frusto-conical portion being arranged inwardly of the annular connecting portion to form a groove there between and connecting the cylindrical outer surface to the end face, wherein the bottom of the groove between the annular connecting portion and the frusto-conical portion is axially spaced from the radially-extending contact surface away from the end surface, the annular connecting portion being moulded out of an axial extension of the cylindrical outer surface of the barrel.



(Compl. Specn. 12 pages.)

Drg. 1 sheet)

CLASS : 55-E.2-[GROUP-XIX(1)]

170540

Int. Cl.<sup>4</sup> : A 61 K 9/00.**PROCESS FOR PREPARING A SOLID GEL EXTERNAL DRUG DELIVERY SYSTEM.**

Applicant : MINNESOTA MINING AND MANUFACTURING COMPANY, A CORPORATION OF THE STATE OF DELAWARE, USA, OF 3M CENTER, ST. PAUL, MINNESOTA 55144, USA.

Inventors : (1) WAYNE KEITH DUNSMILL (2) RONALD EUGENE BERGSTEN.

Application No. 250/Mas/90 filed April 5, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

**3 Claims**

Process for preparing a solid gel external drug delivery system comprising :

gelling a suspension of at least one natural gum and polyvinyl alcohol containing menthol, or methyl salicylate or a mixture thereof in water using an inorganic gelling means such as a borate compound.

Compl. Specn. 29 pages.

Drg. 1 sheet.

CLASS : 87 C [GROUP XLII (4)]

170541

Int. Cl.<sup>4</sup> : A 63 B 59/12**A HOCKEY STICK**

Applicant & Inventor : MARTIN NOEL COLON, OF 47 KNIGHTON WAY LANE, NEW DENHAM, NEAR UXBRIDGE, MIDDLESEX, UB9 4EQ, ENGLAND, A BRITISH SUBJECT

Application No. 845/MAS/87 filed on 23rd November, 1987.

Convention dated 13-6-1987 No. 87 13852 (United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

**10 Claims**

A hockey stick having a bend in the lower part of the shaft thereof the said bend extending in an outward direction towards the toe of the head of the stick and then in a backward direction towards the heel of the head of the stick, said bend first extending to the front of the outer line of said shaft and then to the rear of the inner line of said shaft, said outer line being furthest from the body of a player using said stick when held with the toe pointing away to the front of said player.

(Compl. Specn.—16 pages.)

Drgs.—14 sheets)

CLASS : 70 B [Group LVIII (5)]

170542

Int. Cl.<sup>4</sup> : C 25 B 11/03 & 11/06**A COMPOSITE MEMBRANE/ELECTRODE STRUCTURE AND THE METHOD OF MANUFACTURING THE SAME.**

Applicant : THE DOW CHEMICAL COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, UNITED STATES OF AMERICA.

Inventors : 1. JAMES WILLIAM MCMICHAEL, 2. ROBERT DALE DOOR.

Application No. 861/MAS/87 filed on 1st December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

**16 Claims**

A Composite membrane/electrode structure comprising : a substantially planar ion exchange membrane of fluorocarbon or hydrocarbon material having a plurality of interconnected roadways covering 25 to 75% of the said membrane surface of catalytically active particles selected from oxides of ruthenium, iridium, rhodium, platinum, palladium and mixtures, thereof, optionally in combination with an oxide of a film-forming metal and cobalt oxide either alone or in combination with other metal oxides bonded to at least one planar surface of the said membrane.

(Compl. Specn.—26 pages.)

Drg.—One sheet)

IND. CLASS—136-E—[GROUP-XIII]

170543

Int. Cl.<sup>4</sup> : B 32 B 27/06

B 32 B 31/30

B 29 C 47/00

**AN IMPROVED PROCESS FOR THE PRODUCTION OF AN ORIENTED COMPOSITE POLYESTER FILM**

Applicant : RHONE-POULENC FILMS, A FRENCH BODY CORPORATE, OF 25 QUAI PAUL DOUMER, 92408 COURBEVOIE, FRANCE.

Inventors : (1) MARCEL EYRAUD

(2) PIERRE GROSJEAN

Application No. 919/MAS/87 filed December 22, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

An improved process for the production of an oriented composite polyester film having a thickness in the range of 5 to 300 micrometres comprising the steps of coextruding through a first liner die and at least one second die arranged parallel to the first, a molten crystallisable homopolyester or copolyester of terephthalic acid containing at least 80 mol percent of terephthalate units and a binary mixture consisting of (a) 80 to 20 percent by weight of a crystallisable homopolyester or copolyester of terephthalic acid containing at least 80 mol percent of terephthalate units and (b) 20 to 80 percent by weight of a copolyester containing a plurality of units derived from terephthalic acid or a plurality of units derived from both terephthalic acid and isophthalic acid and a plurality of oxysulphonyl units derived from an aromatic diacid of formula II of the accompanying drawings,

in which;

n is 1 or 2,

M represents hydrogen, an alkali metal, an alkaline earth metal, an ammonium cation or a quaternary ammonium cation,

Z is a polyvalent aromatic radical,

X and Y are carboxyl radical or lower aliphatic alcohol esters or acid halides thereof; and

P is 1 or 2, the number of the said oxysulphonyl group—

containing recurring units expressed relative to 100 acid units being between 3 and 20, the proportions of components (a) and (b) in the mixture being such that the number of oxysulphonyl group-containing recurring units present in the mixture, expressed relative to the total number of recurring acid units, is between 2 and 15 percent, to form a support film (A) and an amorphous coating film (B) deposited on at least one of the surfaces of the support film (A) followed by cooling, drawing and setting to obtain the composite film.

(Com.—44 pages;

Drwg.—1 sheet)

Ind. Cl. : 62 C<sub>1</sub> [GROUP XXII (1)].

170544

Int. Cl. 4 : C 09 B 67/22

## MIXTURES OF MONOAZO DYESTUFFS AND A PROCESS FOR PREPARING THE SAME

Applicant : CASSELLA AKTIENGESELLSCHAFT, HANAUER LANDSTRABE 526, 6000 FRANKFURT AM MAIN, WEST GERMANY, A BODY CORPORATE ORGANISED UNDER THE LAWS OF WEST GERMANY.

Inventors : 1. Dr. ULRICH BUHLER  
2. HUBERT KRUSE  
3. REINHARD KUHN  
4. MARGARETA BOOS

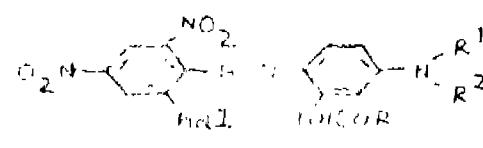
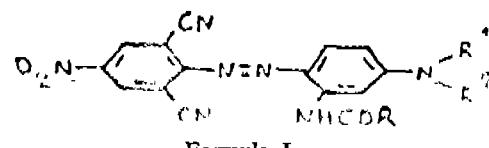
Application No. 52/MAS/88 filed on 25th January, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

2—17GI/92

8 Claims

Mixtures of monoazo dyestuffs, characterised in that they contain one or more dyestuffs of the formula I of the accompanying drawings and one or more dyestuffs of the formula II of the accompanying drawings in a weight ratio of 1 to 99% : 99 to 1% wherein R<sup>1</sup> and R<sup>2</sup> independently of one another denote linear or branched alkyl with 1 to 6 C atoms, R denotes linear or branched alkyl with 1 to 5 C atoms and Hal denotes chlorine or bromine.



(Com. Spec.—17 pages;

Drgs.—2 sheets)

Ind. Class—40-B [GROUP-IV(1)]

170545

Int. Cl. 4 : C 08 F 4/44

## A CATALYST COMPOSITION SUITABLE FOR THE POLYMERISATION OR COPOLYMERISATION OF ETHYLENE.

Applicant : STAMICARBON B. V., OF MIJNWEG 1, 6167 AC GELEEN, THE NETHERLANDS, A NETHERLANDS COMPANY.

Inventors : (1) JOHANNES BLENKERS (2) LUC MARIA CONSTANT COOSEMAN (3) FRANS VAN DEN BOSCH

Application No. 115/MAS/88 filed February 24, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims (No drawing)

A catalyst composition suitable for the polymerization or copolymerization of ethylene optionally containing minor amounts of 1-alkenes and/or dienes at a temperature of at least 180°C comprising :

(i) 0.001 to 4 m moles/litre of one or more titanium compounds of the formula Ti(OR<sup>1</sup>)<sub>4-n</sub>R<sup>1</sup>n and/or Ti(OR<sup>2</sup>)<sub>3-m</sub>X<sup>2m</sup>, where the symbols R<sup>1</sup> and R<sup>2</sup> are equal or different and represent hydrocarbon residues with 1-20 carbon atoms, X<sup>1</sup> and X<sup>2</sup> halogen atoms, 0 < n < 4 and 0 < m < 3;

(ii) 0.06m moles/litre of one or more vanadium compounds selected from the compounds of the formula VO(OR<sup>3</sup>)<sub>3-p</sub>X<sup>3-p</sup>, where the symbols R<sup>3</sup> are equal or different represents a hydrocarbon residue with 1-20 hydrocarbon atoms, X<sup>3</sup> a halogen atom, and 0 < p < 3; compounds of the formula VX<sup>43</sup> or VX<sup>44</sup>, where X<sup>4</sup> represents a halogen atom;

(iii) 0.6 m moles/litre of one or more organoaluminium compounds having the formula R<sup>4</sup>qAl X<sup>53-1</sup>, in which R<sup>4</sup> are equal or different and represent a

hydrocarbon residue with 1-20 hydrocarbon atoms, X<sup>5</sup> represents a halogen atom and 0<q<3;

(iv) 0.1 to 0.2 m moles/litre of one or more chlorides such as herein described wherein the atomic ratio of chlorine to the sum of titanium and vanadium being at least 6, the atomic ratio of aluminium to the sum of titanium and vanadium is at least 3, the atomic ratio of titanium to vanadium is lower than or equal to 1.

(Com.—17 pages)

Ind. Clas : 40-B [GROUP—IV (1)] 170546

Int. Cl.<sup>4</sup>: C 08 F 4/44

CATALYST COMPOSITION SUITABLE FOR THE (CO) POLYMERISATION OF ETHYLENE OPTIONALLY CONTAINING MINOR AMOUNTS OF 1-ALKENES AND/OR DIENES.

Applicant: STAMICARBON B.V., OF MIJNWEG 1, 6167 AC, GELEEN, THE NETHERLANDS, A NETHERLANDS COMPANY.

Inventors: (1) LUC MARIA CONSTANT COOSEMANS, (2) JOHANNES BLENKERS and (3) FRANS VAN DEN BOSCH.

Application No. 116/MAS/88 filed February 24, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 15 Claims (No drawings)

Catalyst composition suitable for the (co)polymerization of ethylene optionally containing minor amounts of 1-alkenes and/or dienes at a temperature of at least 180°C, comprises:

- (1) one or more titanium compounds, in an amount of 0.04 mmole/l.
- (2) one or more vanadium compounds, in an amount of 0.06 mmole/l.
- (3) one or more magnesium compounds, in an amount of 0.06-0.4 mmole/l.
- (4) one or more organoaluminium compounds, in an amount of 0.6 mmole/l.

(5) one or more alkyl, acyl and/or aryl chlorides or chlorides of elements from group 3a and 4a of the Periodic System, in an amount of 0.2 mmole/l, the atomic ratio of magnesium to the sum of titanium and vanadium being between 0 and 10, the atomic ratio of aluminium to the sum of titanium and vanadium being at least 3, the atomic ratio of aluminium to magnesium being at least 1, and the atomic ratio of chlorine to magnesium being at least 2, wherein the titanium compound belongs to the compounds of the general formula  $Ti(OR^1)_{4-n}X^{1n}$  and/or  $Ti(OR^2)_3mX^2m$ , where the symbols R<sup>1</sup> and R<sup>2</sup> are equal or different and represent hydrocarbon residues with 1-20 carbon atoms, X<sup>1</sup> and X<sup>2</sup> halogen atoms, 0≤n≤4 and 0≤m≤3, and wherein the vanadium compound belongs to the compounds of the general formula  $VO(O^{+3})^{3-p}X^{3p}$ , where the symbols R<sup>3</sup> are equal or different and represent a hydrocarbon residue with 1-20 carbon atoms, X<sup>3</sup> a halogen atom 0≤p≤3, and wherein the organoaluminium-compound belongs

to the compounds of the general formula  $R^4qA^{1\times 3}3-q$  where the symbols R<sup>4</sup> are equal or different and represent a hydrocarbon residue with 1-20 hydrocarbon atoms, X<sup>5</sup> represents a halogen atom and 0<q<3.

(Com.—20 pages)

Ind. Cl. : 86 B [GROUP LXVI (4)]

170547

Int. Cl.<sup>4</sup> : A 47 C 1/031

#### A PIVOTING SUPPORT FOR CHAIRS, SEATS AND THE LIKE.

Applicant : PRO-CORD S.r.l., AN ITALIAN LIMITED COMPANY VIA PRATELLO 9, 40122 BOLOGNA, ITALY.

Inventor: GIANCARLO PIRETTI.

Application No. 314/MAS/88 filed on 12th May, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

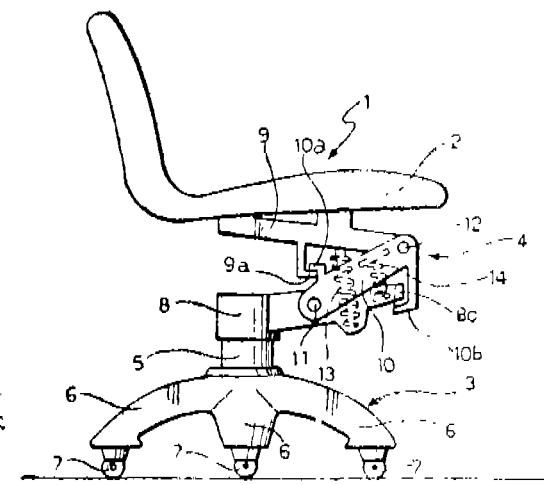
#### 16 Claims

A pivoting support for chairs, seats and the like, comprising:

a main support member (8) which is connected to the base structure (3) of the chair, and

a seat support member (9) which is connected to the main support member (8) for pivoting about a horizontal axis,

characterised in that the seat support member (9) is connected to the main support member (8) with the interposition of an auxiliary support member (10), in that the auxiliary support member (10) is articulated to the main support member (8) about a first horizontal axis (11) and to the seat support member (9) about a second horizontal axis (12) which is parallel to and in front of the first horizontal axis (11), in that first resilient means (13) are interposed between the main support member (8) and the seat support member (9) for biasing the seat support member (9) towards a position in which it is rotated upwardly relative to the auxiliary support member (10), and in that second resilient means (14) are interposed between the main support member (8) and the auxiliary support member (10) for biasing the auxiliary support member (10) towards a position in which it is rotated upwardly relative to the main support element (8).



(Compl. Spec.—19 pages;

Drgs—6 sheet(s)

Ind. Cl. : 70-C.4 [GROUP-LVIII(5)] 170548

Int. Cl.<sup>1</sup> : C 25 D 3/48.

**A PROCESS FOR GOLD PLATING ON MAGNESIUM-LITHIUM ALLOYS.**

Applicant: INDIAN SPACE RESEARCH ORGANISATION, DEPARTMENT OF SPACE, CAUVERY BHAVAN, K. G. ROAD, BANGALORE-560 009, INDIA.

Inventor: ANAND KUMAR SHARMA.

Application No. 468/MAS/88 filed on July 5, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**2 Claims**

A process of gold plating on magnesium-lithium alloy comprising the steps of:—

- (i) ultrasonic cleaning isopropyl alcohol;
- (ii) alkaline cleaning in a bath containing potassium hydroxide 40 to 65g/l, trisodium phosphate 9 to 12g/l, potassium fluoride 1 to 2g/l at a temperature of 70 to 90°C for 5 to 10 minutes;
- (iii) rinsing in water;
- (iv) acid cleaning in 40 to 60% CrO<sub>3</sub> for 4 to 7 minutes;
- (v) rinsing in water.
- (vi) direct nickel plating for 12 to 20 minutes at a current density of 45 to 65 Amps/ft<sup>2</sup> in a bath having a pH of 2.5 to 3.5 and kept at a temperature of 50 to 65°C, the said bath containing 100 to 140g/l of basic nickel carbonate, 100 to 115ml/l of 40% hydrofluoric acid, 35 to 45g/l of citric acid and 1 to 2g/l of sodium lauryl sulphate;
- (vii) electroless nickel plating for 75 to 130 minutes in a bath having a pH of 4.8 to 6.8 and kept at a temperature of 75 to 90°C the said bath containing 8 to 12g/l of basic nickel carbonate; 9 to 12ml/l of 40% hydrofluoric acid, 5 to 6g/l citric acid, 12 to 18g/l ammonium hydrogen fluoride, 18 to 22g/l sodium hypophosphite and 25 to 35ml/l of 30% ammonium hydroxide;
- (viii) rinsing and drying in air;
- (ix) gold striking at a current density of 1 to 2 Amp/ft<sup>2</sup> for 2 to 5 minutes, in a bath having a pH of 3 to 5 and kept at a temperature of 60 to 65°C, said bath containing 2 to 5g/l of gold potassium cyanide, 45 to 65g/l of citric acid and 45 to 65g/l of sodium citrate;
- (x) electroplating gold at a current density of 2 to 44 Amps/ft<sup>2</sup> for 10 to 60 minutes in a bath having a pH of 3 to 5 kept at a temperature of 65 to 73°C the said bath containing 8 to 14 g/l of gold potassium cyanide, 45 to 65g/l of citric acid and 45 to 65g/l of sodium citrate, followed by rinsing in water, heating at 100°C for 1-2 hours;
- (xii) dipping in boiling water;
- (xiii) dipping in hot alcohol and drying in air.

Com.—12 pages. No drawing.

Ind. Cl. : 32-E [GROUP-IX(1)] 170549

Int. Cl.<sup>1</sup> : B 29 C 47/02.

**A METHOD OF PRODUCING EXTRUSION COATED SUBSTRATE.**

Applicant: HUMONT INCORPORATED, OF 1331 N. MARKET STREET, WILMINGTON, DELAWARE 19894, UNITED STATES OF AMERICA, A DELAWARE CORPORATION.

Inventors: (1) B JOSEPH SCHEVE, (2) JOHN W MAYFIELD and (3) ANTHONY J DeNICOLA.

Application No. 758/MAS/89 filed on October 13, 1989.

Divisional to Patent No. 166935 (43/MAS/86) Ante-dated to 23rd January, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**2 Claims**

A method of producing extrusion coated substrate, comprising melt extruding a propylene polymer composition consisting essentially of normally solid, gel-free amorphous to predominantly crystalline polypropylene, the intrinsic viscosity of which is at least 0.8 dl/gm and the branching index of which is less than 1, which polypropylene has strain hardening elongational viscosity through a sheeting die onto a relatively moving substrate just prior to the substrate entering the nip between a chill roll and a nip roll of an extruder.

Com.—35 pages;

Drwgs.—3 sheets

Ind. Cl. : 32-F.2 (b) [GROUP-IX(1)]

170550

Int. Cl.<sup>1</sup> : C 07 D 521/00.

**A PROCESS FOR PREPARING A DIAMINOETHYLENE COMPOUNDS AND THE ACID ADDITION SALTS THEREOF.**

Applicant: TAKEDA CHEMICAL INDUSTRIES, LTD., OF 3-6, DOSHOMACHI 2-CHOME, CHUO-KU, OSAKA, JAPAN, A JAPANESE COMPANY.

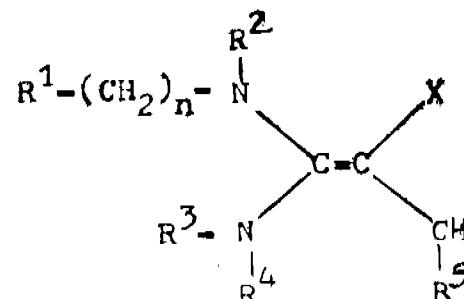
Inventors: (1) HIDEKI UNEME, (2) ISAO MINAMIDA and (3) TETSUO OKAUCHI.

Application No. 269/MAS/90 filed on April 11, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**10 Claims**

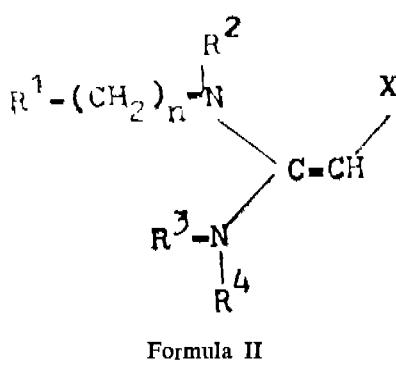
A process for preparing a diaminoethylene compound of the formula (I) of the accompanying drawings.



Formula I

and the acid addition salts thereof in which R is a substituted or unsubstituted heterocyclic group containing 1 to 5 heteroatoms such as oxygen atom, sulfur atom and nitrogen atom, or its condensed heterocyclic group, R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> have the same or different and are substituted or unsubstituted hydrogen atom or a hydrocarbon group consisting of C<sub>1-15</sub> alkyl group C<sub>3-10</sub> cycloalkyl group, C<sub>2-10</sub> alkenyl group, C<sub>2-10</sub> alkynyl group, C<sub>3-10</sub> cycloalkenyl group, C<sub>8-10</sub> aryl group and C<sub>7-11</sub> aralkyl group which are substituted or unsubstituted by the substituents mentioned as

substituents for the heterocyclic group, or R<sup>3</sup> and R<sup>4</sup> are combined to form a cyclic amino group together with the adjacent nitrogen atom; R<sup>5</sup> is a hydrogen atom, a substituted or unsubstituted hydrocarbon group or a substituted or unsubstituted heterocyclic group; n is 0 or 1, x is an electron attractive group; y is a group of the formula —OR<sup>6</sup> in which R<sup>6</sup> is a hydrogen atom, a substituted or unsubstituted hydrocarbon group or a substituted or unsubstituted heterocyclic group, a group of the formula —NR<sup>7</sup>R<sup>8</sup> in which R<sup>7</sup> and R<sup>8</sup> are the same or different, a hydrogen atom or a substituted or unsubstituted hydrocarbon group or R<sup>7</sup> and R<sup>8</sup> are combined to form a cyclic amino group with the adjacent nitrogen atom, or a group of the formula —S(O)m R<sup>9</sup> in which R<sup>9</sup> is a substituted or unsubstituted hydrocarbon group or a substituted or unsubstituted heterocyclic group, and m is 0, 1 or 2 comprises reacting a compound or its salt of the formula II of the accompanying drawings



Formula II

at a temperature of 20 to 200°C in which R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, X and n are as defined above with a compound of the formula III of the accompanying drawings

## FORMULA III



in which R<sup>5</sup> is as defined above optionally containing compound of the formula IV of the accompanying drawings

## FORMULA IV



in which Y<sup>a</sup> has the same meaning as Y defined above, the amount of the compound of formula III or the mixture of compounds of the formulae III and IV being 0.8 to 20 molar equivalents of the compound of formula II respectively and recovering the compound of formula I and the acid addition salts in a known manner.

Com.—43 pages;

Drawgs.—9 sheets

Ind. Cl. : 61-A [GROUP-VIII]

170551

Int. Cl.<sup>4</sup> : F 26 B 3/02

## AN IMPROVED PROCESS OF PRODUCING DRIED WOOD.

Applicant : THE DANISH WOOD TREATING CO. LTD., OF RYTTERHEGNET 9, DK-3450 ALLERD, DENMARK, A DANISH MANUFACTURING COMPANY.

Inventor : STEEN OLE MOLDRUP.

Application No. 926/Mas/87 filed on December 23, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims. No drawing

An improved process of producing dried wood comprising the steps of arranging wood in an autoclave, providing air passage around each element, evacuating the air from the autoclave and heating by means of superheated steam for boiling out water content in the wood, the improvement comprising removing the evaporated steam concurrently with the drying by superheated steam; keeping the steam pressure in the autoclave as uniform as possible and at a temperature below 100°C by adjusting the input flow of superheated steam.

Compl. Specn. 8 pages.

Ind. Cl. : 39-N [GROUP-III]

170552

Int. Cl.<sup>4</sup> : B 01 D 15/08

## A PROCESS FOR PREPARING IMPROVED PACKING MATERIAL FOR USE IN CHROMATOGRAPHIC COLUMNS

Applicant : INDIAN INSTITUTE OF SCIENCE, BANGALORE-560 012, KARNATAKA STATE, INDIA, AN INDIAN INSTITUTE.

Inventors : (1) Dr. KUMUD MAJUMDER (2) Dr. SAMIR KUMAR BRAHMACHARI.

Application & Provisional Specification No. 930 MAS/87 filed on 28th December, 1987.

Complete Specification left on March 27, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A process for the preparation of improved packing material for use in chromatographic columns which comprises treating a conventional chromatographic polymer material such as silica gel or its numerous derivatives/variants, like controlled pore glass, porcelain beads or glass beads having free functionally modifiable groups, with a known phosphorylating agent and optionally treating the phosphorylated polymer with a calcium compound such as calcium chloride to yield the desired packing material.

(Prov. 6 pages) No drawings.

(Com. 9 pages)

Ind. Cl. : 129-C, 131-C [GROUP XXXV, XXVIII(3)] 170553

Int. Cl.<sup>4</sup> : E 21 B 43/26

## “AN IMPROVED METHOD OF EXTRACTING NATURAL GAS OR OIL FROM SUBTERRANEAN FORMATION BY DRILLING”

Applicant : THE DOW CHEMICAL COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, USA, OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN-48640, U.S.A.

Inventors : (1) WILHELM E. WALLES,  
 (2) DONALD L. TOMKINSON,  
 (3) TREVOR D. WILLIAMSON.

Application No. 14/Mas/88 filed on 12th Jan, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.



Ind. Class : 71 D&G [GROUP XXVIII(1)] 170556

Int. Cl.<sup>4</sup> : B 62 D 55/08.

**MEANS FOR PROVIDING A RUNNING SURFACE FOR WHEELS AND ENDLESS TRACKS.**

Applicant : ALTRACK LIMITED, A COMPANY INCORPORATED IN THE STATE OF WESTERN AUSTRALIA, OF 20TH FLOOR, 221 ST. GEORGE'S TERRACE, PERTH, IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA.

Inventor : ALAN ROBERT BURNS.

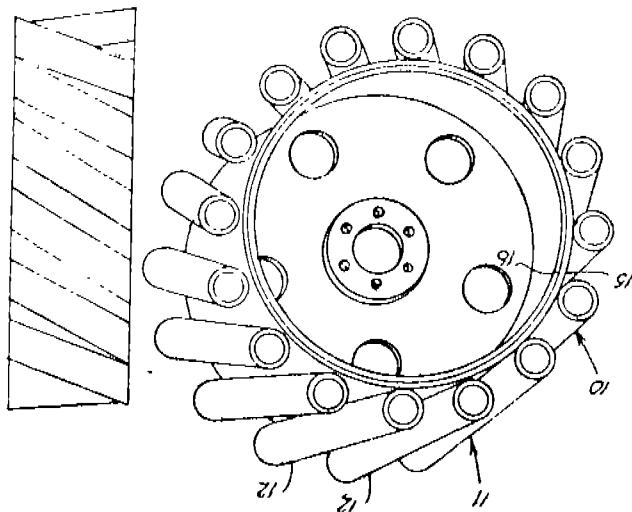
Application No. 124/Mas/88 filed February 26, 1988.

Convention date : February 26, 1987; (No. PI 0560; Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**7 Claims**

Means for providing a running surface for wheels and endless tracks comprising a base and a plurality of elongated, hollow ground engaging elements carried on said base and extending transversely to the direction of travel of said running surface, each said ground engaging element having two lateral portions extending diagonally with respect to said direction of travel and inclined in opposed directions with respect to each other, each element being resilient to deformation under load and the hollow interior being open to the atmosphere.



(Compl. specn. 16 pages

Drgs. 11 sheets)

Ind. Cl. : 128 F [GROUP XIX (2)] 170557

Int. Cl.<sup>4</sup> : A 61 M 5/00.

**A PARENTERAL DEVICE.**

Applicant & Inventor : MAXWELL EDMUND WHISSON, OF 15 LOFTUS STREET, NEDLANDS, IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALIA, AN AUSTRALIAN CITIZEN.

Application No. 250/Mas/88 filed on 20th April, 1988.

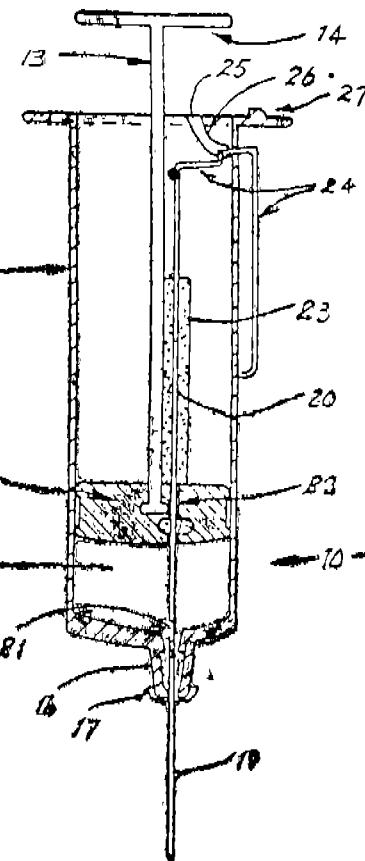
Convention dated 22-4-1987 No. PI 1542 (Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**13 Claims**

A parenteral device comprising a body (11) having a chamber (18); an opening provided in the wall of the chamber; a needle body having a hollow needle (19) with a first aperture at one end and is slidably mounted to the body (11);

the said needle body being movable between a first position extending through said opening whereby its one end extends beyond the body (11) and the needle is sealingly received in the opening and a second position whereby one end of the said needle (19) is located inward from said opening; a second aperture (21) in the wall of the said needle body providing communication between the said chamber (18) and the lumen of the said needle (19) when in the first position the needle body has an axial extension (20) remote from the one of the hollow needle said extension (20) slidably supported in the said needle body and having a handle means to enable manual manipulation to effect movement of the said needle body; a seal (21) provided between the body and the axial extension to slidably and sealingly engage the axial extension between the said second aperture and the said handle means.



(Compl. specn. 18 pages

Drgs. 4 sheets)

Ind. Class : 32-F 2 (b) [GROUP IX (1)]

170558

Int. Cl.<sup>4</sup> : C 07 D 233/32; 233/48.

**AN IMPROVED PROCESS FOR PRODUCING 1, 3-DIALKYL-2-IMIDAZOLIDINONE.**

Applicant : MITSUI TOATSU CHEMICALS, INC., A CORPORATION ORGANISED UNDER THE LAWS OF JAPAN OF 2-5 KASUMIGASEKI 3-CHOME, TOKYO JAPAN.

Inventors : (1) TERUYUKI NAGATA, (2) NOBUYUKI KAJIMOTO, (3) MASARU WADA (4) HIDEKI MIZUTA, (5) AKIHIRO TAMAKI.

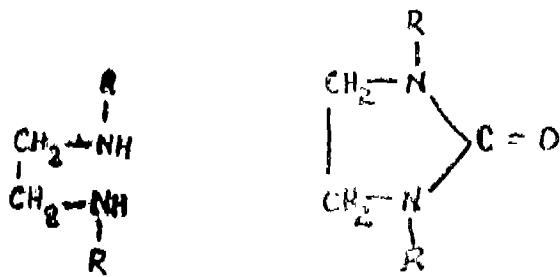
Application No. 822/Mas/89 filed November 7, 1989.

Divisional to Patent No. 167189 (246/Mas/86); Ante-date to April 3, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 4 Claims

An improved process for producing a 1,3-dialkyl-2-imidazolidinone having formula 2 of the accompanying drawings in which R represents  $-\text{CH}_3$ ,  $-\text{C}_2\text{H}_5$ ,  $\text{C}_3\text{H}_7$  or  $-\text{C}_4\text{H}_9$ , by reacting a N,N'-dialkylethylenediamine of formula 1 of the accompanying drawings in which R is as defined above, with urea, the improvement comprises reacting the N,N'-dialkylethylenediamine of the formula 1 with urea in a quantity of 0.6 to 1.2 per mol of the N,N'-dialkyl-ethylenediamine in the presence of a polar solvent at a temperature of not more than  $140^\circ\text{C}$  till 1, 1-dialkyl-1, 1'-dimethylenebisurea is completely formed as an initial reaction product, subsequently raising the temperature in the range of  $180^\circ\text{C}$  to  $300^\circ\text{C}$  at which the reaction is then carried out under pressure and recovering the product in a known manner.



(Compl. specn. 16 pages)

Drg. 1 sheet)

Ind. Class : 32-F.2 (b)-[GROUP IX (1)]

170559

Int. Cl.<sup>4</sup> : C 07 D 233/32; 233/48

## AN IMPROVED PROCESS FOR PRODUCING 1, 3-DIALKYL-2-IMIDAZOLIDINONE.

Applicant : MITSUI TOATSU CHEMICALS, INC., A CORPORATION ORGANISED UNDER THE LAWS OF JAPAN OF 2-5 KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : (1) TERUYUKI NAGATA, (2) NOBUYUKI KAJIMOTO, (3) MASARU WADA, (4) HIDEKI MIZUTA, (5) AKIHIRO TAMAKI.

Application No. 823/Mas/89 filed November 1, 1989.

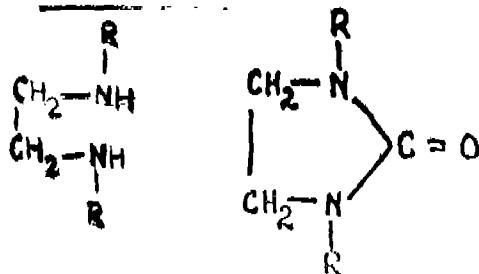
Divisional to Patent No. 167189 (246/Mas/86); Ante-dated to April 3, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 4 Claims

An improved process for producing a 1, 3-dialkyl-2-imidazolidinone having formula 2 of the accompanying drawings in which R represents  $-\text{CH}_3$ ,  $-\text{C}_2\text{H}_5$ ,  $-\text{C}_3\text{H}_7$  or  $-\text{C}_4\text{H}_9$  by reacting a N,N'-dialkylethylenediamine having formula 1 of the accompanying drawings wherein R is as defined above, with urea, the improvement comprises reacting the N,N'-dialkylethylenediamine of the formula 1 with urea in a quantity of about twice for mol of the N,N'-dialkyl-ethylenediamine in the presence of a polar solvent at a temperature of not more than  $140^\circ\text{C}$  till 1, 1-dialkyl-1, 1'-dimethylenebisurea is completely formed as an initial reaction product and subsequently carrying out the reaction at a temperature of  $180^\circ\text{C}$  to  $300^\circ\text{C}$  while adding

additional N, N'-dialkylethylenediamine and recovering the product in a known manner.



(Compl. specn. 16 pages)

Drg. 1 sheet)

Ind. Class : 206-C [GROUP LXII]

170560

Int. Cl.<sup>4</sup> : G 01 S 17/06.

## A SYSTEM FOR SIMULTANEOUSLY LOCATING A PLURALITY OF TARGETS AND FOR DISTINGUISHING SAID TARGETS FROM NOISE.

Applicant : HOLODYNE LTD., 1986 A COLORADO, U.S.A. LIMITED, PARTNERSHIP OF P O BOX 628 LONG-MONT, COLORADO 80502, U.S.A.

Inventors : (1) GENEWYLIE ADAMS, (2) JOHN WILLIAM BROSNAN.

Application No. 833/Mas/89 filed November 9, 1989.

Divisional to Patent No. 166984 (79/Mas/86); Ante-dated to 4th February, 1986.

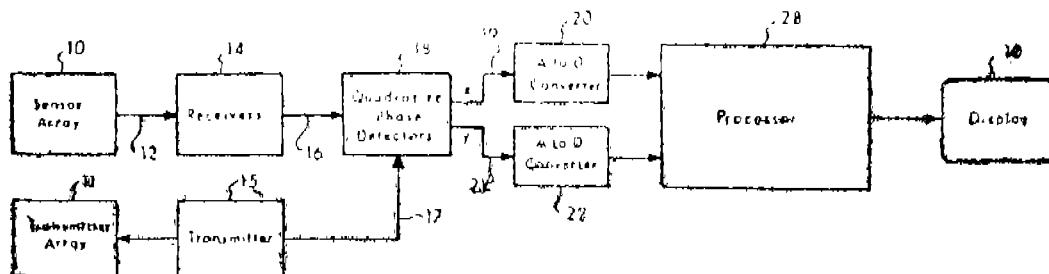
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 2 Claims

A system for simultaneously locating a plurality of targets and for distinguishing said targets from noise, comprising at least three independent sensors for detecting the temporal series of pulses received at said plurality of targets, means for measuring the time of flight of said temporal series of pulses returned from said targets to provide range gate data defining a range window indicative of a range radial distances of said target from said sensors, phase detector means for deriving a respective complex voltage temporal function  $V(t)$  from the temporal series of pulses detected by each sensor, spectral analysis means for transforming separately said complex voltage temporal functions  $V(t)$  to doppler frequency functions  $V(w)$  which vary with doppler frequency (w) induced in said complex voltage temporal functions  $V(t)$ , means for generating spectral phase functions  $\phi(w)$  from said doppler frequency functions  $V(w)$  indicating a plurality of scattering points, means for comparing said scattering points with a predetermined threshold value to identify and distinguish said plurality of targets from noise, means for locating said plurality of targets, comprising means for generating phase difference functions  $\Delta\phi(w)$  from the difference between said phase values  $\phi(w)$  for different pairs of said independent sensors, means for comparing said phase difference functions  $\Delta\phi(w)$  at corresponding doppler frequencies (w), means for analysing said phase difference functions  $\Delta\phi(w)$ , as a function of the spatial separation of said different pairs of said independent sensors, using an interferometry technique whereby to determine a common location of the temporal

series of pulses from each target characterised in that the system is provided with a transmitter for transmitting a temporal series of pulses to illuminate said plurality of targets for

producing reflected temporal series of pulses from the said targets.



(Compl. specn. 39 pages)

Drgs. 12 sheets)

Ind. Cl. : 80 E [GROUP VI]

170561

Int. Cl.<sup>4</sup> : C 08 J 7/02, 7/12.

## ALKALI RESISTANT HYPERFILTRATION MEMBRANE.

Applicant : FILMTEC CORPORATION, OF 7200 OHMS LANE, MINNEAPOLIS, MINNESOTA 55435, U S A, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE.

Inventor : JOHN E. CADOTTE.

Application No. 12/Mas/88, filed on 8th Jan 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

An alkali resistant hyperfiltration membrane comprising :

(a) a porous support layer; and (b) affixed to the support layer, a discriminating layer having a plurality of micro-pores in a normally water-compatible polymer matrix such as herein described which bears a plurality of groups reactive with aldehyde, said polymer being crosslinked via reaction of a difunctional or polyfunctional aldehyde to render the polymer normally water-insoluble.

(Compl. specn. 29 pages)

Drg. Nil)

Ind. Cl. : 40 F [GROUP IV (1)]

170562

Int. Cl.<sup>4</sup> : B 01 D 53/00.

## A PROCESS AND APPARATUS FOR PURIFYING VAPOURS OBTAINED FROM AN AMMONIUM NITRATE PLANT.

Applicant : UHDE GMBH, OF FRIEDRICH-UHDE-STR. 15, 4600 DORTMUND 1, FEDERAL REPUBLIC OF GERMANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventor : ROBERT NEBEL.

Application No. 33/Mas/88 filed on 19th January 1988.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras.

5 Claims

A process for purifying vapours obtained from an ammonium nitrate plant comprising scrubbing the vapours with clean process water in a first scrubbing stage, scrubbing the vapours with non-phytotoxic alkalis such as Na OH, KOH,

MgO or CaO in a second scrubbing stage, and scrubbing the vapours with clean process water in third scrubbing stage.

An apparatus for purifying vapours obtained from an ammonium nitrate plant by the process claimed in claim 1, comprising a first scrubbing stage (7) for scrubbing the vapours with clean process water, a second scrubbing stage (8) at the downstream of the first scrubbing stage for scrubbing with non-phytotoxic alkalis followed by a final scrubbing stage (9) with water for separating the droplets from the vapours.

(compl. specn. 11 pages)

Drg. 1 sheet)

Ind. Cl. : 48C [GROUP LVIII (3)]

170563

Int. Cl.<sup>4</sup> : H 01 B 3/20.

## A PROCESS PRODUCING DIELECTRIC LIQUIDS UNCONTAMINATED BY CHLORINATED ORGANIC COMPOUNDS CONTAINING MORE THAN 2 CARBON ATOMS.

Applicant : ATOCHEM, A FRENCH BODY CORPORATE, FRANCE OF LA DEFENCE 10, 4 & 8 COURS MICHELET, 92800 PUTEAUX, FRANCE.

Inventor : JACQUES DUGUA.

Application No. 34/Mas/88 filed on 19-1-1988.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, Madras.

8 Claims

A process for producing dielectric liquids uncontaminated by chlorinated organic compounds containing more than 2 carbon atoms, comprising treating the dielectric liquids having chlorinated organic compounds as impurity with at least one liquid chloroaluminate, to extract at least one contaminant, followed by subsequent separation of the uncontaminated dielectric liquid from the mixture by known means.

(Compl. specn. 11 pages)

Drg. Nil)

Ind. Class : 32 B [GROUP IX (1)]

170564

Int. Cl.<sup>4</sup> : C 07 B 35/00.

## A CONTINUOUS PROCESS FOR HYDROGENATING AN UNSATURATED ORGANIC COMPOUND TO A CORRESPONDING HYDROGENATION PRODUCT IN A HYDROGENATION PLANT.

Applicant : DAVY MCKEE (LONDON) LIMITED, A BRITISH COMPANY OF 250 EUSTON ROAD, LONDON NW1 2pG, ENGLAND.

Inventors : (1) GEORGE EDWIN HARRISON, (2) JOHN RICHARD HENSMAN.

Application No. 45/Mas/88 filed January 21, 1988.

Convention date : February 6, 1987; (No. 8702654; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rule, 1972), Patent Office, Madras Branch.

### 11 Claims

A continuous process for hydrogenating an unsaturated organic compound to a corresponding hydrogenation product in a hydrogenation plant having first and second hydrogenation zones connected in series each containing a charge of a known solid heterogeneous hydrogenation catalyst, comprising the steps of :

- (a) continuously supplying a hydrogen-containing gas and a liquid phase containing at least 1 mole percent of the unsaturated organic compound dissolved in a compatible diluent to an upper part of the first hydrogenation zone,
- (b) maintaining the first hydrogenation zone under temperature and pressure conditions conducive to hydrogenation, preferably at a pressure in the range of 1 bar to 300 bar and at a temperature from 40°C to 350°C,
- (c) allowing liquid phase to pass downwardly through the first hydrogenation zone,
- (d) continuously recovering an intermediate reaction product from a lower part of said first hydrogenation zone,
- (e) recovering a gaseous effluent from a lower part of the first hydrogenation zone,
- (f) supplying the intermediate reaction product from step (d) in liquid form to an upper part of said second hydrogenation zone,
- (g) maintaining the second hydrogenation zone under temperature and pressure conditions conducive to hydrogenation, preferably at a pressure in the range of 1 bar to 300 bar and at a temperature from 40°C to 350°C,
- (h) allowing the intermediate liquid reaction product to pass downwardly through said second hydrogenation zone,
- (i) supplying a feed gas containing at least 50 mole percent of hydrogen, the balance being one or more inert gases to an upper part of the second hydrogenation zone,
- (j) recovering a gaseous effluent stream from a lower part of the second hydrogenation zone,
- (k) supplying the said gaseous effluent stream of step (j) to form the hydrogen-containing gas of step (a),
- (l) recovering a liquid hydrogenation product containing stream from the lower part of the second hydrogenation zone, and
- (m) purging material of the gaseous effluent stream of step (e) from the hydrogenation plant.

(Compl. specn. 29 pages

Drg. 1 sheet)

Ind. Cl. : 158 D [GROUP LII (2)]

170565

Int. Cl. : B 61 K 3/00.

LUBRICATING DEVICE FOR DELIVERING A SHOT OF LUBRICATING FLUID TO A DESIRED LOCATION ON A SURFACE.

Applicant : MADISON-KIPP CORPORATION, A WISCONSIN CORPORATION OF 201 WAUBESA STREET, P.O. BOX 3037, MADISON, WISCONSIN 53704 U.S.A.

Inventors : (1) ROBERT M. DOMBROSKI, (2) JOHN P. KAYSER.

3-17GI/92

Application No. 92/Mas/88 filed on 12th Feb 1988.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rule, 1972), Patent Office, Madras Branch.

### 8 Claims

A lubricating device for delivering a shot of lubricating fluid to a desired location on a surface, said device comprising a nozzle member having an air exit port and lubricant exit port; air inlet means for delivering air to said device; a first air passage means for delivering air to said air exit port in said nozzle member; lubricant inlet means for delivering lubricant to said device; a piston disposed in a first piston chamber and having bore means for receipt of lubricant; means for moving said piston from a first inoperative position to a second operative, lubricating position; and, a second air passage means for delivering air to said piston moving means to provide motive force thereto.

(Compl. specn. 14 pages

Drgs. 2 sheets)

Ind. Cl. : 127 C [GROUP LXV (1)]

170566

Int. Cl. : B 65 G 15/34, F 16 G 1/08.

A METHOD FOR PRODUCING A DRIVING OR CONVEYOR BELT MADE OF RUBBER OR A RUBBER-LIKE MATERIAL.

Applicant : PETER-BTR GUMMIWERKE AKTIENGESELLSCHAFT, OF GELEITSTRASSE 11B 6450 HANAU 8, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventor : GEHARD LOOSE.

Application No. 118/Mas/88 filed on 25th Feb 1988.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rule, 1972), Patent Office, Madras Branch.

### 6 Claims

A method for producing a driving or conveyor belt made of rubber or a rubber-like material comprising the steps of covering partly or fully with threads of a synthetic material selected from polyester, polyamide, and/or aramid or a combination thereof with a coating of rubber or rubber-like material, weaving said threads into a textile fabric combining one or more plies of said textile fabric to a reinforcing member and covering said reinforcing member with contact layers and/or cover layers of rubber or a rubber-like material to form a driving or conveyor belt.

(Compl. specn. 11 pages

Drg. Nil)

Ind. Cl. : 57 A [GROUP XXXIV(1)]

170567

Int. Cl. : B 04 C 9/00.

A PARTICLE SEPARATOR FOR SEPARATING SOLIDS AND GASES IN A HOT GAS STREAM HAVING SOLIDS ENTRAINED THEREIN.

Applicants : A. AHLSTROM CORPORATION, A CORPORATE BODY EXISTING UNDER THE LAWS OF THE STATE OF FINLAND, DOMICILED AT SF-29600 NOORMARKU, FINLAND.

Inventor : FILKE ENGSTRÖM.

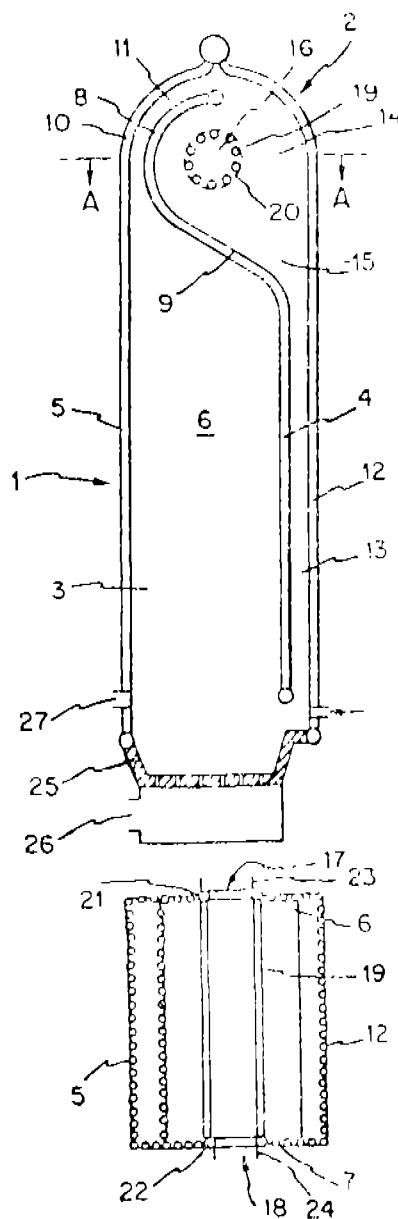
Application No. 129/MAS/88 filed on 29th February, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

### 11 Claims

A particle separator for separating solids and gases in a hot gas stream having solids entrained therein comprising a cyclone chamber having an axis and means for guiding the hot gas stream with entrained solids about an axis; and inlet

duct in communication with said cyclone chamber for introducing the stream into said cyclone chamber; at least one outlet for said cyclone chamber for removing solids separated from the stream in the cyclone chamber; and a conduit disposed in said cyclone chamber extending generally in an axial direction and having a gas outlet, said conduit being formed by a plurality of tubes extending generally in said axial direction with said tubes adapted to receive a coolant, said tubes defining a plurality of slots therebetween providing for passage of the gas from the cyclone chamber into said conduit and through said gas outlet.



Incomplete specification 16 pages.

Drg. one sheet.

Ind. Cl. : 205-G&H [GROUP-LVI]

170568

Int. Cl. : B 60 C 15/04.

#### A PNEUMATIC TIRE MOUNTABLE ON A RIM.

Applicant : COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN-MICHELIN & CIE, A FRENCH COMPANY, OF 4 RUE DU TERRAIL, 63000, CLERMONT-FERRAND, FRANCE.

Inventor : JEAN-LOUIS CHARVET.

Application No. 136/MAS/88 filed March 1, 1988.

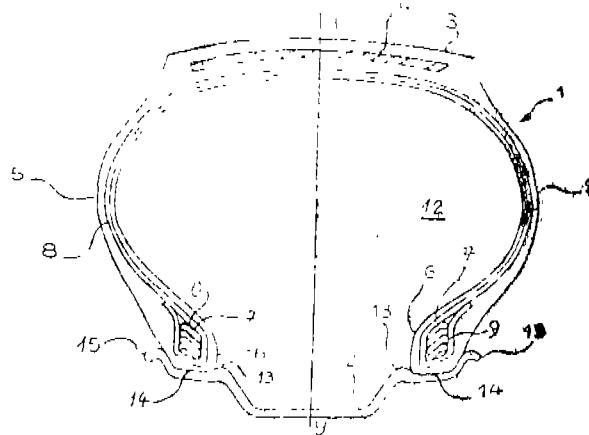
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 4 Claims

A pneumatic tire mountable on a rim, the tire having beads each of which is reinforced by at least one bead ring formed of a stack of ribbons of curved shape, wherein in the said bead ring,

(a) the concavity of the ribbons faces the axis of rotation of the tire;

(b) in radial section, a straight line connecting the ends of any and all ribbon forms with the axis of rotation of the tire an acute angle  $\alpha$  such that  $\alpha \geq \beta + 5$  if  $\beta$  is positive and  $\alpha \geq 5$  if  $\beta$  is negative,  $\beta$  being the angle of the bead seat of the rim,  $\alpha$  &  $\beta$  being expressed in degrees, the end of the ribbon arranged towards the inside of the tire being closer to the axis of rotation of the tire than the end of the ribbon arranged towards the outside of the tire.



Com. 11 pages.

Drgs. 1 sheet.

Ind. Cl. : 131-B 4 [GROUP XXVIII(3)]  
Int. Cl. : E 21 B 21/00.

170569

#### A SYSTEM FOR TESTING DRILLING MUD AT A RIG SITE.

Applicant : Forex Neptune SA, a French Corporation of 50 Avenue Jean-Jaurès, 92120 Montrouge, France.

Inventors : Timothy Gareth John Jones, Trevor Hughes.

Application No. 154/MAS/88 filed on 9th March, 1988.

Convention dated 9th March, 1987; No. 8705502 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

#### 16 Claims

A system for testing drilling mud at a rig site comprising a tank for containing and mixing the mud, a pumping means for pumping the mud connected to the tank and to a drill string via a rotary swivel, the said drill string being formed from hollow pipes with a drill bit at the lower end thereof, the said drill string being located in a borehole forming an annulus between the said drill string and the said borehole, means provided for returning mud from the said annulus to the tank via a shale shaker and solids control equipment having analysing means for periodically sampling the mud and analysing an aqueous filtrate thereof by ion chromatography to determine selected positive and negative ion concentrations.

Complete specification 60 pages.

Drgs. 25 sheets.

Ind. Cl. : 195-D [GROUP XXIX(3)]

170570

Int. Cl. : F 16 K 51/00.

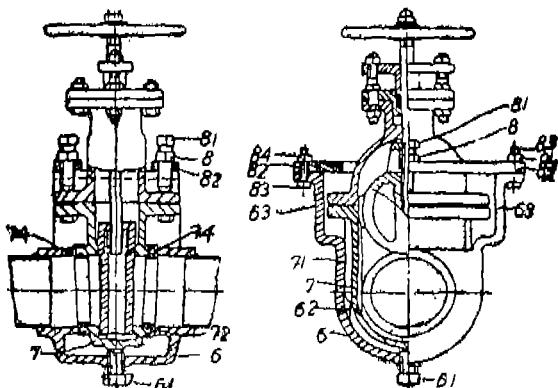
**SEPARABLE VALVE ASSEMBLY.**

Applicant & Inventor : SHINN-I HSIAO, OF 120-1,  
SHIN-RONG ROAD, CHIAYI CITY, TAIWAN, R.O.C., A  
CITIZEN OF THE REPUBLIC OF CHINA.

Application No. 219/MAS/88 dated April 6, 1988.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972), Patent Office, Madras Branch.**2 Claims**

A separable valve assembly comprising a valve mount (6) and a valve body (7) wherein the valve mount (6) has a cavity having two inclined inner planes (64) oppositely disposed therein registering with two correspondingly contoured external planes (74) of the valve body (7) such that the valve body can be tightly wedged into the cavity of the valve mount, a pair of fixing plates (82) are removably mounted on the top of the valve mount, the centre of each plate (82) being provided with a valve body pushing belt (81) which is used to push an inserted valve body (7) into right engagement with the valve mount (6) during assembly; a valve body lifting bolt is placed at the bottom of the valve mount (6) for abutment against the bottom of the valve body (7) for pushing the valve body upward for separation of the two in disassembly.



Com. 7 pages.

Drwgs. 2 sheets.

Ind. Cl. : C<sub>1</sub> [LIV (2)]

170571

Int. Cl. : F 16 C 33/72.

**AN ELECTRIC STARTER MOTOR FOR AN INTERNAL COMBUSTION ENGINE WITH LUBRICANT SEALING DEVICE.**

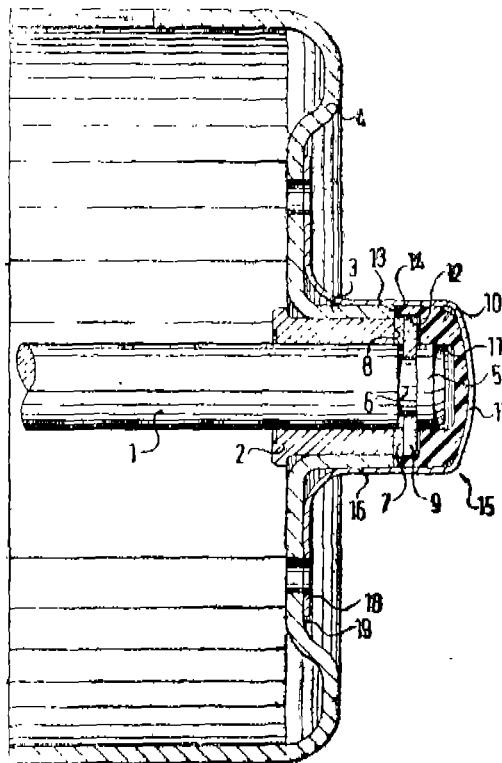
Applicant : ROBERT BOSCH GmbH, of Postfach 50,  
7000 Stuttgart 1, Federal Republic of Germany, a German  
company.

Inventor : 1. PETER SCHMIDT 2. ERWIN ELSER 3.  
ERICH DROLL.

Application No. 865/MAS/87 filed on 1st December,  
1987.Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office Branch, Madras.**5 Claims**

An electric starter motor for an internal combustion engine comprising a drive shaft having an armature and a commutator, a meshing drive and a starter pinion movably mounted on said drive shaft, the said drive shaft being rotatably mounted in a commutator end bearing and in a drive end bearing having a bearing cap, the commutator end bearing

secured in a housing and the said bearing cap being provided with a lubricant cap or a sealing ring, the bearing cap being capable of press closing against a bearing boss provided on the said commutator bearing for sealing off the lubricant.



Com. Spec. 10 pages.

Drwgs. 2 sheets.

Ind. Cl. : 198 B [GROUP XXXIV (5)]

170572

Int. Cl. : B 03 D 1/14.

**A DEVICE FOR AERATING LIQUIDS.**

Applicant & Inventors : ANDREAS JUNGMANN, of  
Velberter Strasse 109a, 4300 Essen 16 and ULRICH REIL-  
LARD, of Im Stadtfeld 90, 4370 Dorsten; both of West  
Germany, and of German nationality.

Application No. 871/MAS/87 filed on 3rd December,  
1987.

Convention dated 24-11-1987 No. 552588 (Canada).

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office Branch, Madras.**6 Claims**

A device for aerating liquids comprising an injector having a housing with a central section forming an annular channel leading to an air outlet located in the wall of the housing; the cross section of the annular channel being narrow at the said air outlet, abruptly widening and merging into a mixing and dispersing stage extending upto an exit from the housing, a gap provided at the entrance of the annular space with a width to produce a slurry blow rate in the order of 2 m/s. the annular channel having a uniform cross section from the abruptly widened portion upto said exit from the housing and the length of the mixing and dispersing stage being 20 times the annular gap width.

Ind. Cl. : 42 D [GROUP XVI]

170573

Int. Cl. : A 24 B 3/00.

**IMPROVED TOBACCO EXPANSION APPARATUS.**

Applicant : BRITISH-AMERICAN TOBACCO COMPANY LTD., of P O Box 482 Westminster House, 7 Millbank, London SW1P 3JE, England, a British Company.

Inventors : 1. IAN CAMPBELL 2. ERIC HERBERT DENNIS 3. DAVID JAMES MOLYNEUX.

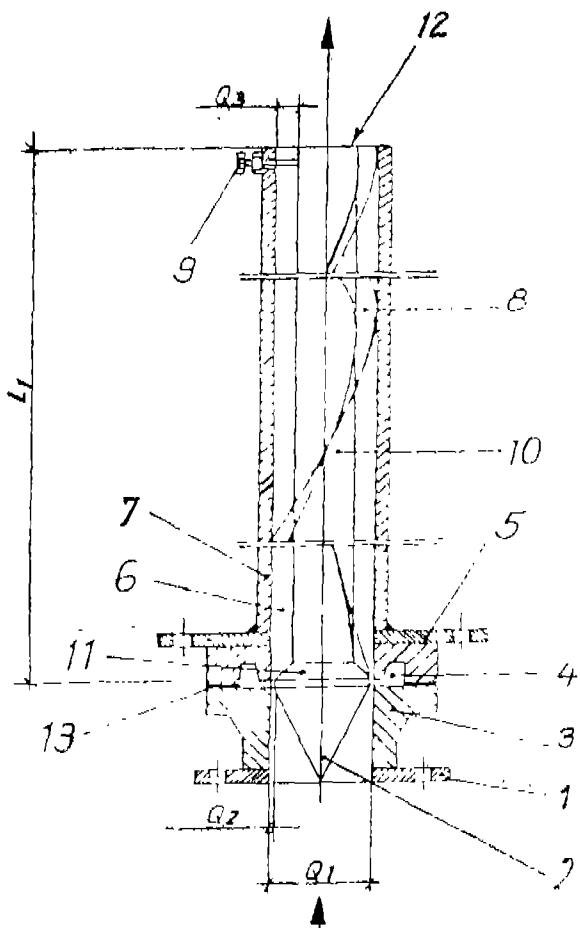
Application No. 888/MAS/87 filed on 9th December, 1987.

Convention dated 22-12-1986 No. 8630636 (United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

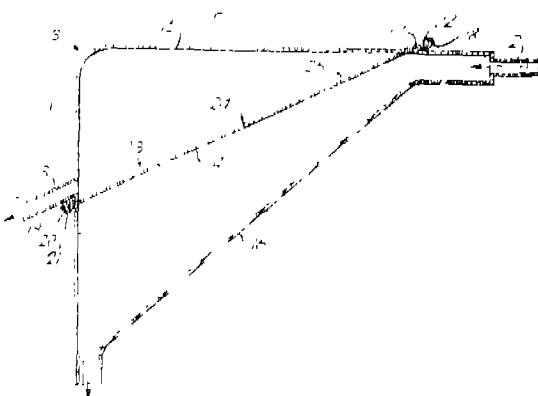
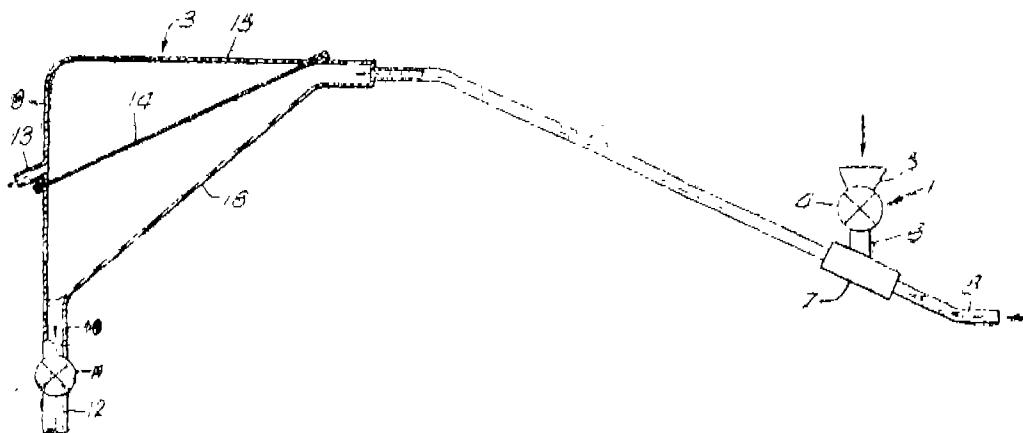
**2 Claims**

An improved tobacco expansion apparatus having a separator (3) with a casing (9), a gas inlet (8) and a tobacco inlet (5) into the said casing, a tobacco outlet (10) at the lowermost position of the separator (3), a gas outlet (13) at an intermediate height of the separator (3) and a downwardly inclined separation screen (14) extending across the interior of the casing (9) of the separator and dividing the casing (9) at the plane of the screen (14) into the two sections (15, 16), held or mounted by exterior securing flanges (17, 18, 19, 20) and securing means (21, 22) such that the side of the screen (14) facing the gas inlet and extending over the full gas flow cross-section of the casing (9) of the separator.



Com. Spec. 10 pages.

Drgs. 1 sheet.



Spec. 10 pages.

Drgs. 2 sheets.

Ind. Cl. : 35 C [GROUP XXV (2)]

170574

Int. Cl. : C 04 B 7/43.

**A COAL-FIRED KILN PLANT FOR BURNING CLINKER.**

Applicant : F. L. SMIDTH & CO. A/S., a company organised under the rules of Denmark, of 77, Vigerslev Alle, DK-2500 Valby, Denmark.

Inventor : PETER BECKTOFT NIELSEN.

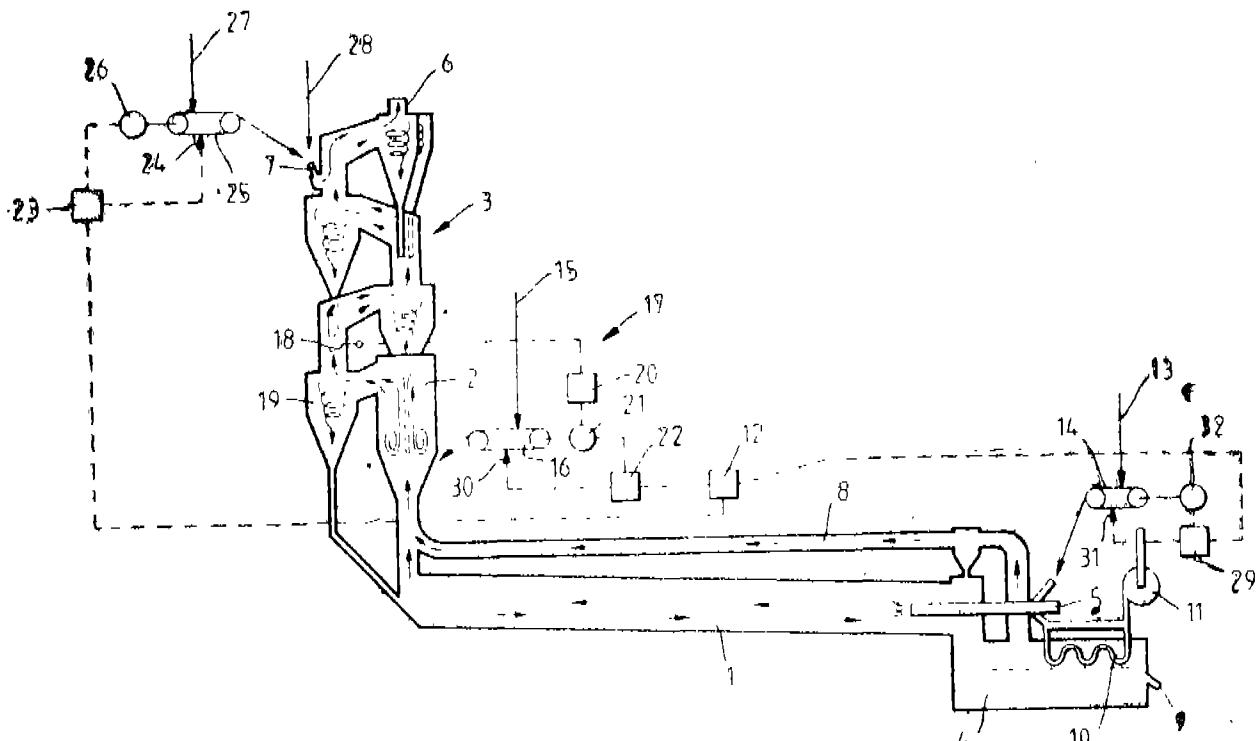
Application No. 889/MAS 87 filed on 9th December, 1987.

Convention dated 9-12-1986 No. 8629372 (Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

**5 Claims**

A coal-fired kiln plant for burning clinker comprising a rotary kiln (1), a precalciner (2), a pre-heater (3), a clinker cooler (4), a kiln burner installation (5), an exhaust gas duct (6), a raw material inlet (7) and a tertiary air duct (8) leading from the clinker cooler (4) to the precalciner (2), first control means (12) for continuous measurement of the ash content of coal meal fed to the burner installation (5) from an inlet (13) to a first conveyor (12) and to the precalciner (2) from an inlet (15) to a second conveyor (16), second control means for metering correction material fed to the primary raw material plant inlet (7) from an inlet (27) to a third conveyor (25).



Com. Spec. 8 pages.

Drws. 1 sheet.

Ind. Cl. : 140-A.2 [GROUP-KI(2)]

170575

Int. Cl. : C 10 M 129/10.

**A LUBRICATING OIL COMPOSITION.**

Applicant : CHEVRON RESEARCH COMPANY, A CORPORATION DULY ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 555 MARKET STREET, SAN FRANCISCO, CALIFORNIA, U.S.A.

Inventor : THOMAS V. LISTON.

Application No. 5/MAS/88 filed January 5, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**7 Claims**

A lubricating oil composition comprising a lubricating oil and 0.5 to 40 weight percent of an oil-soluble Group II metal overbased sulfurized alkylphenol with a Total Base Number of 300 or more, a viscosity of 800 centistokes or less at 100°C and containing less than about 10 mole percent of unsulfurized Group II metal alkylphenol.

Com. 50 pages.

Drwgs. 1 sheet

Ind. Cl. : 39 K [GROUP III]

170576

Int. Cl. : C 01 G 23/047.

**A PROCESS FOR PREPARING A TITANIUM DIOXIDE PIGMENT.**

Applicant : THE DOW CHEMICAL COMPANY, a corporation organized and existing under the laws of the State of Delaware, U.S.A., of 2030 Dow Center, Abbott Road, Midland, Michigan 48640, U.S.A.

Inventor : HENRIK R HEIKEL.

Application No. 32/MAS/88 filed on 19th January, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

**11 Claims**

A process for preparing a titanium dioxide pigment comprising the steps of (a) comminuting a titanium dioxide bearing material in a mill to a particle size of from 0.5 to 3mm in diameter; (b) mixing the titanium dioxide bearing material with water and an alkali metal compound selected from alkali metal hydroxide, alkali metal carbonate, and alkali metal oxide; wherein the ratio of the titanium dioxide bearing material and the alkali metal compound is from

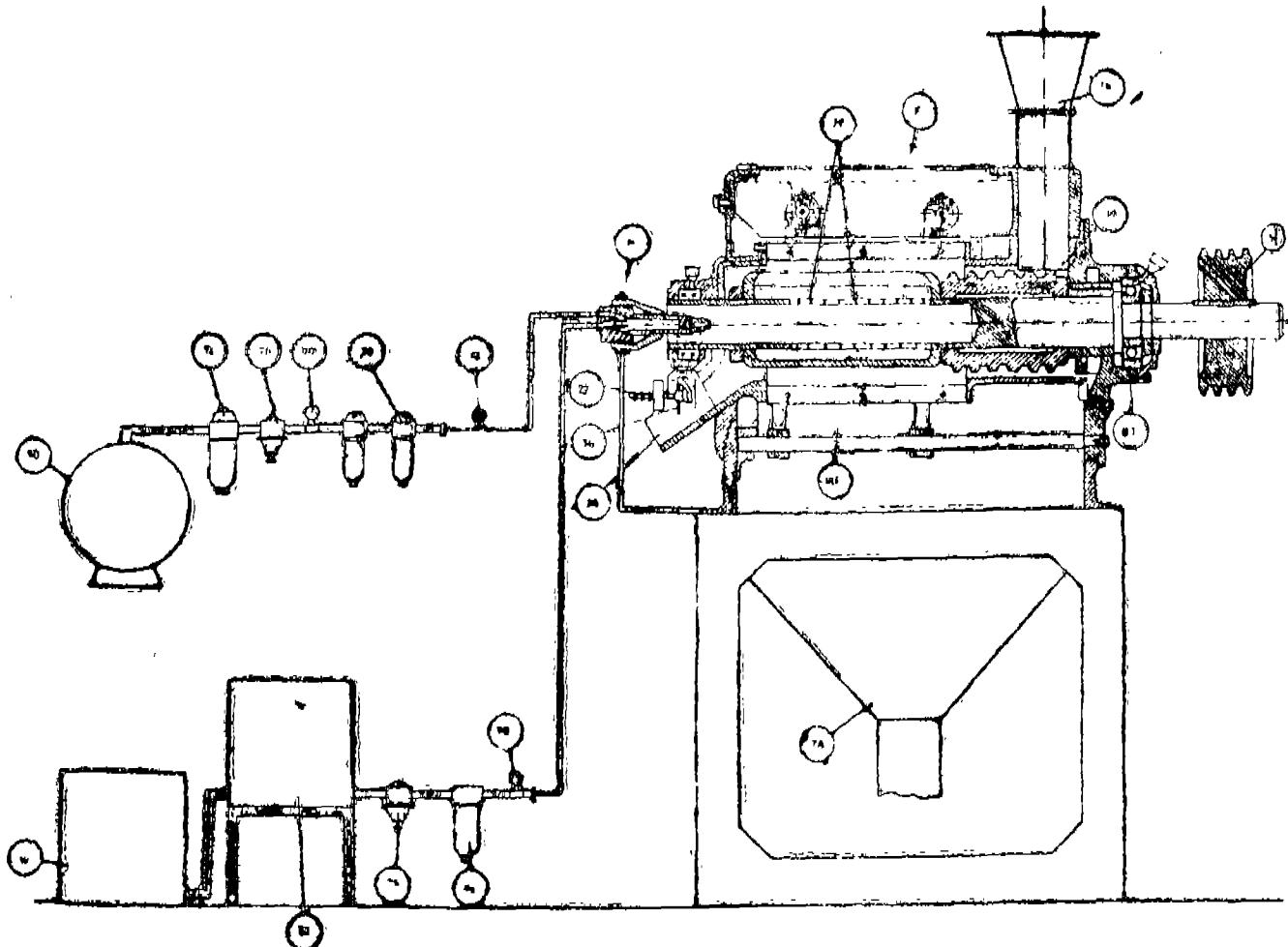


Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

2 Claims

A Friction Polisher comprising a milling chamber, a revolving milling roller having sharp polishing edges arranged with-

in said milling chamber, a perforated screen surrounding the said roller means for advancing the grain to be polished through the milling chamber characterised by means for injecting humidified air in to the milling chamber.



Prov. 4 pages; Compl. Specn. 7 pages; Drgs. 2 sheets each of size 33.00 cms. by 41.00 cms.

Ind. Cl. : 48 A<sub>1</sub> [GROUP LVIII (3)]

170580

Int. Cl. : H 01 B 11/00.

**AN IMPROVED DEVICE FOR CORE WRAPPING AND COMPACTING OF TELEPHONE CABLE CORES.**

Applicants & Inventors : VUCHA SUSEELA & VUCHA JAGAN MONHAN RAO, PLOT NO. 79, MADHAVANAGAR COLONY, NEAR NEW HOUSING BOARD COLONY, SAIDABAD, HYDERABAD, ANDHRA PRADESH, INDIAN NATIONALS.

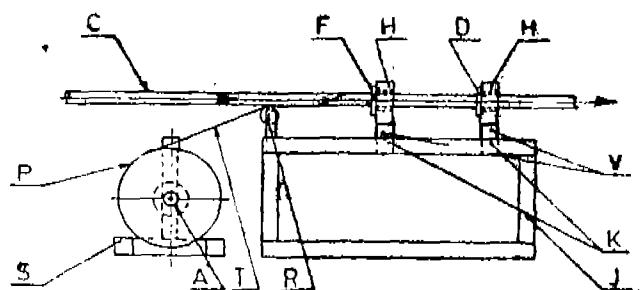
Application No. 506/Mas/88 filed on 18th July, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

2 Claims

A device for applying core wrapping tape closely over the telephone cable core and simultaneously compacting the same, comprising a supporting frame over which are mounted (1) a forming die which vibrates and guides the core wrapping tape and cable core, the tape and cable core being fed separately from supply stands to the die (2) a compacting die adjacent to the forming die which vibrates, guides and com-

pacts the wrapped cable core, the above dies being placed in die holders mounted on the frame in a line so that the vibrations are transmitted to the forming die and compacting die (3) vibrator units or ultrasonic transducer units fixed on the die holders to generate vibrations and a supply stand positioned behind the frame having arbor or pad holder for mounting the core wrapping tape pad.



Compl. Specn. 14 pages.

Drgs. one sheet.

**CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970**

- (a) The Claim made by HOODYNE LTD., Under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 170560 (833/Mas/89) in their name has been allowed.
- (b) The Claim made by ANDREAS JUNGMANN and ULRICH REILARD Under Section 20(1) of the patents Act, 1970 to proceed the application for Patent No. 170572 (871/Mas/87) in their name has been allowed.
- (c) The Claim made by INLAND STEEY COMPANY under Section 20(1) of the Patents Act, 1970 to proceed for Patent No. 170577 (64/Mas/88), in their name has been allowed.

**PROCEEDINGS UNDER SECTION 20(1)**

The Claim made by AEG WESTING HOUSE INDUSTRIAL AUTOMATION CORPORATION under Section 20(1) of the Patent Act 1970 to proceed the application for Patent No. 168272 in their names has been granted.

**PATENT SEALED**

ON 13TH MARCH, 1992

163377 164890 166492 166562 166705 166930\* D 167196\*  
 167289\* D 167344\* 167439 167596\* D 167597\* D 167799  
 168258\* 168302 168304\* 168313 168324\* 168371 168372\* D  
 168491\* 168472\* 168474 168475 168476 168477 168479\*  
 168480 168481 168482\* 168483\* 14884\* 168485\* 168486\*  
 168488, 168476\* 168643

Cal.—14, Del.—04, Mas.—19, Bom.—NIL.

\*Patents shall be deemed to be endorsed with the words "LICENCE OF RIGHT" under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of Sealing.

**D—DRUG Patents.**

**RENEWAL FEES PAID**

149289 149318 149319 149321 150192 150275 150342 150347  
 150398 150408 150454 150476 150676 151030 151081 152104  
 152544 152669 153116 153233 153236 153244 153245 153347  
 153362 153363 153373 153393 153395 153396 153539 154107  
 154232 154250 154688 154693 154694 154754 154857 154924  
 155008 155009 155022 155024 155035 155179 156561 156695  
 157111 157255 157260 157369 157393 157438 157489 157490  
 167519 157670 158253 158282 158465 158466 158467 158537  
 158557 158573 158670 158694 158765 158945 158960  
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 159805 159810 159902 160095 160150 160179 160180 160181  
 160189 160191 160196 160199 160200 160220 160221 160318  
 160354 160356 160446 160498 160499 160532 160537 160576  
 160582 160594 160670 160682 160711 160764 160828 160837  
 160838 160845 160883 160911 160960 161084 161086 161238  
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 161871 161880 161971 162032 162082 162242 162496  
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 163816 163843 163856 163932 163986 163991 164009 164033  
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 164179 164207 164210 164232 164264 164265 164392 164419  
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 165166 165167 165182 165184 165185 165186 165187 165280  
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165731 165757 165837 165910 166059 166264 166272 166318  
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 167016 167019 167096 167113 167119 167120 167147 167171  
 167175 167210 167226 167254 167350 167444 167455 167482  
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 167718 167719 167720 167721 167750 167770 167800 167801  
 167809 167812 167814 167815 167816 167817 167819 167843  
 167848 167850 167874 167876 167883 167996 168016 168019  
 168084 168085

**CESSATION OF PATENTS**

158985 159833 162893 163290 164357

**RESTORATION PROCEEDING**

Notice is hereby given that an applicaion for restoration of Patent No. 160582 dated the 16th January 1984 made by National Research Development Corporation of India on the 24th December 1990 and notified in the Gazette of India Part III, Section 2 dated the 30-3-91 has been allowed and the said Patent restored.

**REGISTRATION OF DESIGNS**

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

Class 1. No. 163530. Flex Pouches Pvt. Ltd. of C-21, 22 Sector-57, Noida, District Ghaziabad (U.P.), Indian Company. "Expanding shaft". August 20, 1991.

Class 1. No. 163588. Honda Giken Kogyo Kabushiki Kaisha of 1-1, Minamiaoyama 2-chome, Minato-ku, Tokyo, Japan. "Motorcycle". September 10, 1991.

Class 1. No. 163644. NSL Limited of Nagarjuna Hills Hyderabad-500 482, A.P., India. Indian Company. "Light duty industrial storage rack". October 1, 1991.

Class 1. No. 163645. NSL Limited of Nagarjuna Hills, Hyderabad-500 482, A.P., India. Indian Company. "Heavy duty Industrial Storage Rack". October 1, 1991.

Class 1. No. 163646. NSL Limited of Nagarjuna Hills, Hyderabad-500 482, A.P., India. Indian Company. "Railway electrification mast". October 1, 1991.

Class 1. No. 163664. Swaraj Steel, of 356, GIDC Estate, Aji Phase-II, 80 feet road, Rajkot-360 003, Gujarat, India, partnership firm. "Wick stove drum". October 14, 1991.

Class 1. No. 163665. Swaraj Steel, of 356, GIDC, Estate, Aji Phase-II, 80 feet road, Rajkot-360 003, Gujarat, India, partnership firm. "Top cover ring of which stove". October 14, 1991.

Class 1. No. 163685. British Telecommunications public Ltd. company, British Co. of 81, Newgate Street, London EC1A 7AJ, England. "Telephone Apparatus". October 24, 1991.

Class 1. No. 163826. Kiran Udyog, Plot No. 47, Gali No. 6, Anand Parbat Industrial, New Rohtak Road New Delhi-110 005, India. "Brake pedal for two and three wheeler scooter". November 25, 1991

Class 1. No. 163931. Lok Nath Bajaj trading as New Light Industries, H. 332, J. J. Colony, Wazirpur, New Delhi-110 052, India, Indian. "Children's Bouncing Cradle". December 20, 1991.

Class 1. Nos. 163954 & 163955. Banko Surgico, Naya Bazar Bhiwani, Haryana, India, Partnership Firm. "Opratieon threatre operating light with exhaust fan". December 27, 1991.

Class 3. No. 163299. L. V. Sham Cottage Industries, 2292/2, Inside Gate Hakiman, Amritsar-143 001, Punjab, India, Indian Partnership Firm. "Torch". June 10, 1991.

Class 3. No. 163304. L. V. Sham Cottage Industries, 2292/2, Inside Gate Hakiman, Amritsar-143 001, Punjab, India, Indian Partnership Firm. "Torch cum switch". June 10, 1991.

Class 3. Nos. 163440 & 163441. Sinter Plast Containers, Plastics Division of The Bharat Vijay Mills Ltd., at Kalol (North Gujarat), Pin-382 731, Gujarat, India. "Flower Pot". July 25, 1991.

Class 3. No. 163442. Sinter Plast Containers, Plastics Division of The Bharat Vijay Mills Ltd. of Kalol (North Gujarat), Pin-382721, Gujarat, India. "Tray". July 25, 1991.

Class 3. No. 163766. Ramchand Choitram Sons, Indian Partnership Firm of 10, New Cutlery Market, Opp. Jumma Masjid, Bombay-400 002, Maharashtra, India. "Hair Comb". November 7, 1991.

Class 3. No. 164018. Caroma Industries Ltd., an Australian Company of 10, Market Street, Brisbane, Queensland 4000, Australia. "Cistern". Priority date July 23, 1991 (Australia).

Class 10. No. 163915. Happy Rubber Industries, a partnership firm of New Colony, Tando Road, Jalandhar-144 004, Punjab, India. "Chappal". December 17, 1991.

*Copyright extended for the 2nd period of five years*

Nos. 157777, 160027 & 160028	Class 1.
Nos. 157194, 162065, 162779, 163180 & 163128	Class 3.
No. 163181	Class 4.
No. 162477	Class 12.

*Copyright extended for the 3rd period of five years*

Nos. 160027, 160028 & 163180	Class 1.
Nos. 162065, 162779 & 163128	Class 3.
No. 163128	Class 4.
No. 162477	Class 12.

R. A. ACHARYA  
Controller General of Patents, Designs  
and Trade Marks

प्रबन्धक, भारत सरकार मुद्रणालय, फरीदाबाद द्वारा मुद्रित  
एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1992

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